

Processo 153/60  
Universidade da Bahia  
PARCELA DATE/EDUCAÇÃO -01/60

Conselho Deliberativo da SUDENE  
Aprovado em Sessão de 7 de X 11 1960  
José de Ribamar Cavalcanti  
PRESIDENTE

Assinado(a) pela

Assinatura 26

Senhores Conselheiros:

A Universidade da Bahia encaminhou à Superintendência do Desenvolvimento do Nordeste solicitação para que seja recomendada a concessão de câmbio de custo para importação de equipamentos e outros materiais, para fins didáticos a serem usados naquela importante unidade do ensino superior regional. A pretensão encontra apoio no item 1, alínea j, do artigo 13 da Lei nº 3.692, de 15.12.59, combinado com o artigo 53 do Regulamento, Decreto nº 47.890, de 9.3.60.

O total da solicitação, em diversas moedas, e leva-se a US\$ 1.382.027,45 (hum milhão, trezentos e oitenta e dois mil, vinte e sete dólares e quarenta e cinco centavos), convertidas em moeda americana. Para o pagamento da importação, a Universidade da Bahia conseguiu, na Superintendência da Moeda e do Crédito - SUMOC - o registro cambial de uma operação de "swap", pelo prazo de cinco anos.

No julgamento do referido pedido, a Secretaria Executiva levou em consideração os seguintes fatores:

- a) a importância do aparelhamento das unidades escolares do ensino superior, tendo em vista o plano de desenvolvimento regional previsto pela SUDENE e as necessidades adicionais que implicará sobre a oferta de profissionais na região;
- b) a prioridade para os materiais e/ou equipamentos cujas necessidades são imediatas, para a realização de aulas práticas, e cuja implantação nas unidades escolares não requer, a curto prazo, nenhum investimento adicional em edifícios, instalações, novos professores, etc.;
- c) a existência de similares de fabricação nacional, tendo-se excluído aqueles equipamentos e/ou materiais que podem ser satisfeitos pela indústria nacional nas quantidades e qualidades exigidas.



De posse das informações transmitidas pela Universidade da Bahia e de acordo com os critérios acima referidos, a Secretaria Executiva elaborou duas listas de prioridade, A e B, que seguem anexas, as quais totalizam, separadamente, em moeda americana, US\$ 996.694,51 e US\$ 385.332,94. Ante o exposto, a Secretaria Executiva é de parecer que este Conselho recomende, ao Exmo. Sr. Presidente da República, ouvido o Conselho de Política Aduaneira, a concessão de câmbio de custo para importação de equipamentos e outros materiais para fins didáticos, a serem importados do Exterior, e constantes da lista de prioridade "A", anexa.

Recife, 21 de novembro de 1960

*Jose de Ribamar Teixeira Leite*

*Celso Furtado*

Celso Furtado  
Superintendente

UNIVERSIDADE DA BAHIA

Solicitação de câmbio de custo  
para importação de equipamentos.

Material prioritário

L I S T A "A"

Escola de BELAS ARTES .....	US\$	3.225,79
CENTRO DE ESTUDO DE MATEMÁTICA E FÍSICA...		51.998,84
Escola de GEOLOGIA .....		4.150,45
Escola POLITÉCNICA .....		194.773,90
FACULDADE DE MEDICINA .....		505.627,72
Escola de ARQUITETURA .....		137.722,50
FACULDADE DE ODONTOLOGIA .....		6.858,72
FACULDADE DE FILOSOFIA .....		62.953,68
INSTITUTO DE QUÍMICA (Faculdade de Filosofia)		16.070,96
FACULDADE DE FARMÁCIA .....		13.311,95
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TOTAL DA LISTA... US\$		996.694,51



MINISTÉRIO DA EDUCAÇÃO E CULTURA

UNIVERSIDADE DA BAHIA

ESCOLA DE BELAS ARTES

SALVADOR-BAHIA

PEDIDO DE MATERIAL PARA O FUNCIONAMENTO DOS  
CURSOS DE PINTURA, ESCULTURA E GRAVURA

Lista "A"

(Catálogo de LEFRANC de janeiro de 1958)

Endereço: Rue da La Ville-Lévêque - PARIS (VIII<sup>o</sup>)

Toiles a peindre

- Préparées pour la peinture a l'huile

Reference 180 - Toile pochade - largeur 2 metres  
(en pieces de 10 x 2) - 5 pieces US\$ 146,85

Reference 15 - Extra fine (pour portraits en  
pieces de 10 x 2 - 2 pieces ..... 160,42

Cartons - Panneaux - pour la peinture a l'huile

Reference 123 - N<sup>o</sup> 6 figure - cartons entoiles 50 31,40

n<sup>o</sup> 8 " - " " 50 39,50

n<sup>o</sup> 12 " - " " 50 68,87

Papier pour le pastel

Reference 756 - velouté jaune - 52 x 75 100 f. 29,37

1692 - feutré a grains 65 x 50 100 f. 13,17

755 - velouté 75 x 105 100 f. 55,70

Fusains

Reference 1523 - Buissons - 1.000 pièces 56,71

Mirettes

Reference 1194 - Longueur 0m.20

n<sup>o</sup> 1 24 pièces (

n<sup>o</sup> 2 24 " (

N<sup>o</sup> 3 24 " (

14,58

Palettes pour la peinture a l'huile

Reference 1133 - En bois teinté verni - 33 x 22 - 24 p. 16,53

Palettes Diaz - 1136 - En noyer verni - 41 x 27 - 6 p. 25,52

Blocs - pour l'aquarelle e le dessin/pour le desin

Reference 1004 - in 4 - 32 x 24 24 pièces 20,42

in 8 - 25 x 16 24 " 10,53

A transportar .... US\$ 689,57



CURSOS DE PINTURA, ESCULTURA E GRAVURA

Fl. 2.1

Transporte ..... US\$ 689,57

Crayons

Reference 1608 - Crayons sepia	6 dz <sup>ene</sup>	9,92
874 - " sanguine	6 "	19,83
1669 - " graphite sup. "Alaska 6 B ...	12 "	16,04

Crayons de couleurs

Reference 1313 - Blanc .....	2 dz <sup>ene</sup>	1,75
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Papier pour le fusain - Ingres

Reference 846 - Blanc 63 x 48 pour ecoles .....	3.000 fls.	120,31
336 - Couleurs 63x48 cre- me, bleu, palle, rose	2.000 "	145,84

Encre de cĳine "Nan-king"

Reference 953 - Moyen .....	24 pićes	4,67
1881 - Petit modele .....	48 "	6,32

Encres a dessiner

Reference 3537 - Blanc .....	24 pićes	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	
Bleu de cobalt .....	24 "		
Bleu de prusse .....	24 "		
Carmin .....	24 "		
Jaune citron .....	24 "		
OrangĆ .....	24 "		
Noir .....	24 "		
Rose .....	24 "		
Vermillon .....	24 "		
Vert clair .....	24 "		
Vert foncĆ .....	24 "		
ViolĆt .....	24 "		

Boites "Harpignies"

Reference 1346 - 16 pićes .....		47,32
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Bouleaur a Revernir

Reference 3820 - Longuer 160 mm. ...	2	24,31
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3141 <u>Echoppes Onglettes</u> N <sup>o</sup> s 51	emanchees	12 pićes	
52		12 "	
53		12 "	
54		12 "	
" Losange n <sup>o</sup> 71			41,81
			20,90

A Transportar ..... US\$ 1.186,51



	Transporte .....		1.186,51
3141 <u>Echoppes</u>			
" Rayées - n° 61	12 pièces		
n° 62	12 "		
n° 63	12 "		41,56
<u>Brunissoirs en acier</u>			
Reference - 3784 - Brunissoirs-grattoir	12 pièces		24,06
Reference - 504 - Langues de chat			
n° 1 .....	12 pièces	}	14,58
n° 3 .....	12 "		
Reference - 3774 - Porte-points ..	12 pièces		9,36
<u>Pointes</u>			
Reference - 3773 - Pointes n° 1 ..	10 pièces		
n° 3 ..	10 "		
n° 5 ..	10 "		3,65
<u>Papier pour le tirage des épreuves</u>			
Reference - 3594 - 56 x 76 .....	1.500 fls.		121,53
<u>Gouache pour la décoration</u>			
Reference - 1280			
Blanc couvrant .....	30 tubes		15,80
Tube n° 10 - Blanc permanent .....	60 "		23,70
n° 5 - Bleu cobalt .....	70 "		17,72
- Bleu de Prusse .....	48 "		7,78
- Outremer clair .....	72 "		11,71
- Ocre jaune .....	72 "		10,94
- Noir d'ivoire .....	72 "		11,55
- Ocre rouge .....	60 "		9,11
- Vert emeraude .....	72 "		12,44
- Vert veronese .....	48 "		7,78
- Terre sienne brûlée..	48 "		7,29
- Terre sienne naturelle	48 "		7,29
- Jaune de cadmiun citron	60 "		20,05
" " clair	72 "		24,06
" " foncé	72 "		24,06
- Rouge vermillon .....	72 "		12,44
- Rose érythrine .....	60 "		11,55
<u>Machine a broyer</u>			
Reference - 1013 .....	1 pièce		40,51
	A Transportar .....	US\$	1.677,03



CURSOS DE PINTURA, ESCULTURA E GRAVURA

Fl. 4.

Transporte .....US\$ 1.677,03

Crayons lithographiques

Reference - 1632 - n° 1 - dur ..... 12 boites ( {  
 n° 4 - tendre ..... 12 " ( { 11,91

Plastine

Reference - 3920 - Nuance - gris ..... 50 K 33,42

Ebauchoir en buis

Reference - 1191 - n° 2 ..... 2 dz. ( {  
 n° 4 ..... 2 dz. ( {  
 n° 7 ..... 2 dz. ( {  
 n° 17 ..... 2 dz. ( { 23,33  
 n° 26 ..... 2 dz. ( {  
 n° 33 ..... 2 dz. ( {

Ebauchoir ecolaires

Reference - 1241 - V ..... 24 ( {  
 X ..... 24 ( { 1,75

Flacons en fer-blanc

Reference - 1023 - Pour boites de 2, hau-  
 ter totale 65 m ..... 24 pieces 9,72  
 Pour boites de 4 H.T. 24 " 13,61

Godets a palette en fer-blanc

Reference - 1156 Simples - n° 3 ..... 50 pieces 7,09

Parasols de campagne a inclinasion variable

Reference 1475 ..... pieces 94,79

Piques pour parasols

Reference 1815 ..... 6 pieces 54,08

Pince pour tendre les toiles

Reference - 3689 ..... 6 pieces 16,10

Miroir diminuant

Reference - 340 - 85 x 120 ..... 10 pieces 25,12

Canif japonais pour gravure

Reference - 3141 - emanche n° 81 ..... 24 pieces 21,88

Outils pour gravure

Reference 3141 - Gouges demi-creuses n° 21 10 pieces ( {  
 n° 23 10 " ( {  
 n° 24 10 " ( { 26,13

(emanchees)

Gouges ..... 10 " ( {  
 n° 32 10 " ( { 17,42

Gouges en V - n° 41 10 " ( {  
 n° 42 10 " ( { 17,42  
 n° 44 10 " 8,71

A Transportar .... 2.059,51



Transporte ..... US\$ 2,059,51

## LEFRANC

COULEURS - "EXTRA-FINES" BROYÉES A L'HUILLE

REF. 101

TUBES N° 10

DESIGNATION DES COULEURS	QUANT.	
Blanc de titane .....	42	24,57
Blanc de zinc .....	60	31,60

TUBES N° 6

Bleu de cobalt .....	96	58,33
Brun de Mars .....	42	9,36
Jaune de cadmiun citron .....	60	60,76
clair .....	192	194,45
moyen .....	42	42,54
orange .....	96	97,22
Noir d'ivoire .....	192	38,89
Ocre jaune .....	192	38,89
Outremer n° 1 foncé .....	192	42,78
Rouge de cadmiun clair .....	96	168,72
Rouge de Venise .....	96	21,39
Laque foncée garance .....	36	15,68
Terre de Sienne nat .....	96	19,44
brulée .....	96	19,44
Vert émeraude .....	192	93,33

Vernis á retoucher - J.G. Vibert

Reference - 1253 - Flacon .....	72	59,06
1176 - Huile de lin- decolorée de mi-flacon ...	72	18,03

COUTEAUX A PALETTE

Ref. 3.200 - n° 4 lame de 120 mm. .... 24 pièces 15,56

COUTEAUX A PEINDRE

Ref. 169 - n° 1 - Forme truelle longue Om08. 24 "" 32,08  
 n° 3 - " " étroite Om04. 24 "" 32,08  
 n° 4 - Feuille de laurier Om.03 24 "" 32,08

US\$ 3.225,79



L I V R O S D E F I S I C A P/0  
CENTRO DE ESTUDOS DE MATEMÁTICA E FÍSICA  
LISTA "A"

<u>Quantidade</u>	<u>L i v r o</u>	<u>US\$</u> <u>Prêço</u>	<u>Valor</u>	<u>Editora</u>
1	-Frank-Introduction to Mechanics and Heat-M.Graw	6,00	6,00	MG
1	-Frank-Introduction to Electricity and Optics- M.Graw	6,50	6,50	MG
2	-Sutton-Demonstration experiments in Physics	7,50	7,50	MG
2	-American Institute of Physics Handbook	15,00	30,00	MG
1	-Handbook of Physics-E.U.Condon	16,00	16,00	MG
1	-Marburger and Hoffman-Laboratory introduction	1,80	1,80	MG
1	-Idem-Teacher's Manual	1,00	1,00	MG
1	-Idem-Tests(Dickinson)	0,72	0,72	MG
1	-Becker- Introduction to Teoretical Mechanics	8,00	8,00	MG
1	-Zeemansky- Heat and Thermodynamics	7,50	7,50	MG
1	-Allis and Herlin-Thermodynamics and Statistcical Mechanics	6,00	6,00	MG
1	-Morse- Vibration and Sound	7,50	7,50	MG
2	-Harnwell-Principles of Electricity and Magnetism	8,50	17,00	MG
1	-Slater and Frank-Electromagnetism	5,00	5,00	MG
1	-Smythe-Static and Dynamic Electricity	10,00	10,00	MG
1	-Stratton-Electromagnetism Theory	10,00	10,00	MG
1	-Smith -Electrical Measurements in theory and application	6,00	6,00	MG
1	-Hardy and Perrin- The Principles of Optics	9,50	9,50	MG
2	-Jenkins and White-Fundamentals of Optics	8,50	17,00	MG
1	-Morgan -Introduction to Geometrical and Physi al Optcs	7,00	7,00	MG
2	- Richtmier,Kennard and Lauritzen-Introduction to Modern Physics	8,50	17,00	MG
2	-Harnwell and Livingood-Experimental atomic Physics	7,50	15,00	MG
1	-Harnwell and Stephons-Atomic Physics	8,00	8,00	MB
1	-Read- Dislocations in Crystals	5,00	5,00	MG
1	-Seitz- Modern Theory of Solids	11,00	11,00	MG
1	-Morse and Feshback-Methods of Theoretical Physics	30,00	30,00	MG
1	-Price- Nuclear Radiation Detection	8,00	8,00	MG
1	-Rossi and Staub-Ionization Chambers and Counters	3,25	3,25	MG
1	-Margenau-The nature of Physical Reality	7,00	7,00	MG
1	-Churchill-Fourier Series and Boundary Value problems	4,50	4,50	MG
1	-Churchill-Introduction to Complex Variables and applications	5,50	5,50	MG
1	-Sneddon- Fourier Transforms	10,00	10,00	MG
1	-Sokolnikoff-Mathematical Theory of Elasticity	9,50	9,50	MG



<u>Quantidade</u>	<u>Livro</u>	<u>US\$ Preço</u>	<u>Valor</u>	<u>Editora</u>
1	-Singe and Grifith-Principles of Mechanics	7,55	7,55	MG
1	-The Bateman compendis of Special Functions	31,00	31,00	MG
1	-Anderson and Bancroft-Statistical Theory in research	7,00	7,00	MG
1	-McKinsey-Introdution to the Theory of Games	6,50	6,50	MG
1	-Beranek- Acoustics	5,50	5,50	MG
1	-Carlin -Ultransonics	5,50	5,50	MG
1	-Browell and Beam Theory and Application of Microwaves	7,50	7,50	MG
1	-Ginzton- Microwave measurements	12,00	12,00	MG
1	-Hund-High Froquency Measurements	12,00	12,00	MG
1	-Montgomery-Technique of Microwave Measurements	11,00	11,00	MG
1	-Valley and Wallmann-Vacum tube amplifiers	10,00	10,00	MG
1	-Atwood- Electric and Magnetic Fields	6,50	6,50	JW
1	-Muchmore- Essential of microwaves	6,00	6,00	JW
1	-Skilling - Fundamentals of Electric Waves	5,00	5,00	JW
1	-Von Hippel- Dielectric Materials and applications	18,50	18,50	JW
1	-Von Hippel- Dielectrics and Waves	16,00	16,00	JW
1	-Atkin- Mathematics and Wave mecanics	6,00	6,00	JW
1	-Phillips-Vector Analysis	4,00	4,00	JW
1	-Bitter- Currents,Fields and Particles	8,50	8,50	JW
1	-Bohr - Atomic Physics and Human Knowledge	3,95	3,95	JW
1	-Hix and Alley -Physical Laws and effects	8,00	8,00	JW
1	-Bachmann- Techniques in Experimental Electronics	5,50	5,50	JW
1	-Braddick-The Physics of Exporimental Method	7,50	7,50	JW
1	-Blatt and Weisskopf-Theoretical Nuclear Physics	13,50	13,50	JW
1	-Brown- Foundations of Nuclear Physics	6,50	6,50	JW
1	-French- Principles of Modern Physics	6,75	6,75	JW
1	-Holliday- Introductory Nuclear Physics	7,50	7,50	JW
1	-Rose- Elementary Theory of Angular Momentym	10,00	10,00	JW
1	-Spstaein- Textbook of Therdynamics	7,50	7,50	JW
1	-Garret- Magnetic Cooling	4,75	4,75	JW
1	-Kittel- Elementary Statistical Physicis	8,00	8,00	JW
1	-Lindsay-Introduction to Physical Satatistics	6.25	6.25	JW
1	-London - Superfluids	8,50	8,50	JW
1	-March- Quantum Mechanics of Particles and Wave fields	6,75	6.75	JW



<u>Quantidade</u>	<u>Livro</u>	US\$		<u>Editora</u>
		<u>Preço</u>	<u>Valor</u>	
1	-Gordy, Smith Trambarulo-Microwave Spectroscopy	8,75	8,75	JW
1	-Harrison-Wavelength Tables with intensities	17,50	17,50	JW
1	-Valasek -Introduction to Theoretical and Experimental Optics	7,50	7,50	JW
1	-Kittel- Introduction to Solid State Physics	12,00	12,00	JW
1	-Beranek -Acoustics Measurements	12,50	12,50	JW
1	-Schneider and Ham-Experimental Physics for Colleges	4,65	4,65	VN
1	-Bayley and Bidwell- An advanced Course in General College Physics	6,00	6,00	VN
1	-Elementary Practical Physics-Black and Davis	5.16	5.16	VN
1	-Back and Weaver- Laboratory Experiments and Workbook to accompany Black and Davis Elementary Practical Physics	1.88	1.88	VN
1	-Laboratory Experiments in Elementary Physics to accompany Black and Davis Elementary Practical Physics	3.00	3.00	VN
1	-Wood - Physics Optics	11.00	11.00	VN
1	-Foundations of Modern Physical Science-Holton and Roller	8.50	8.50	AW
1	-Solid State Magnetic and Dielectric Devices: Katz	10.00	10.00	JW
1	-Great Experiments in Physics-Shamos-Henry Holt	8.00	8.00	
1	-Instrumentation in Scientific Research -Lion	9.50	9.50	MG
1	-Groupes Finis de Symetrie e Recherches de solutions de l'Equation de Schoedinger-Dunod	8.00	8.00	
1	-Solid State Physics- Seitz -Vol.9 Academic Press	14,50	14.50	
1	-High Resolution Nuclear Magnetic Resonance - Pople, Schneider and Bernstein	13.50	13.50	MG
1	- Solid State Physics -Advances in Research and applications- Seitz -Vol.10	15.00	15.00	
1	-Paramagnetic Resonance in Solids- Low-Academic Press	7.50	7.50	
1	-Nuclear Spectroscopy -Ajzemberg -Selove Parts A and B Academic Press	32.00	32.00	
1	-Fluctuation Phenomena in Semi-Conductor Van der Ziel Academic Press	8.80	8.80	
1	-Similarity and Dimensional Methods in Mechanics L.I. Sedov- Academic Press	14.00	14.00	
1	-Absorption and Dispersion of Ultrasonic Waves Herzfeld and Litovitz -Academic Press	14.50	14.50	
1	-Sur la Résonance Magnétique- Centre National de la Recherche Scientifique	10.00	10.00	
1	-Dictionary of Physics- Gray - Longman's	16.50	16.50	
1	-The Theory of Elementary Particles- Hamilton-Oxford	12.00	12.00	



<u>Quantidade</u>	<u>Livro</u>	<u>US\$</u> <u>Preço</u>	<u>Valor</u>	<u>Editora</u>
1	-R.B. Lindsay- Mechanical Radiation	8.00	8.00	MG
1	-Leonid Azaroff: Introduction to Solids	8.00	8.00	MG
1	-Herbert Callen- Thermodynamics	8.75	8.75	JW
1	-The Conceptual Foundation of the Statistical Approach Cornell	3.00	3.00	
1	-The Taylor Manual of Advanced undergraduate experiments in Physics	9.50	9.50	AW
1	-Statistical Physics:Landau e Lifshitz	12.50	12.50	AW
1	-Landau and Lifshitz: Quantum Mechanics	12.50	12.50	AW
1	-Classical Mechanics:Herbert Goldstein	8.50	8.50	
1	-The Theory of Photons and Electrons: Jauch e Rohrlich	10.50	10.50	
1	-Classical Electricity and Magnetism- Wolfgang Panofsky	8.50	8.50	AW
1	-Somat & Katz:Physics	9.00	9.00	RIN
1	-Somat: Fundamentals of Physics	8.00	8.00	RIN
1	-Concepts of Classical Optics:John Strong:	9.50	9.50	Fr.
1	-Mechanics,Wave motion and heat:F.W.Sears	9.00	9.00	AW
1	-Theoretical Physics-Electromagnetism Constant	7.50	7.50	AW
1	- Principles of Electricity :Page and Adams	6.50	6.50	VN
1	-Kinetic Theory of Gases:Present	7.75	7.75	MG
1	-Proceedings of the Second United Nations International Conference on the Peaceful Uses of Atomic Energy	190.00	190.00	
1	-Electrical Measurements and their applications: Michels	6.75	6.75	VN
1	-Theoretical Physics:Thermodynamics, Electromagnetism,Waves and Particles Constant	7.50	7.50	AW
1	-Theoretical Physics:Mechanics of Particles, Rigid and Elastic bodies,Fluids and Heat Flow:Constant	7.50	7.50	AW
1	-German English Science Dictionary	7.00	7.00	MG
1	-Churchman- Measurements	7.95	7.95	JW
1	-Feenberg and Pake -Quantum Theory of angular Momentum -Stanfor Press	1.25	1.25	
1	-Principles of Optics-Max Born and Emil Wolf-Pergamon	17.50	17.50	
1	-Methods of Experimental Physics Vol.I Classical Methods	12.80	12.80	AP
1	-Methods of Experimental Physics Vol.VI - Part A Preparation,Structure,Mechanical and Thermal Properties	11.80	11.80	AP



<u>Quantidade</u>	<u>Livro</u>	<u>US\$ Preço</u>	<u>Valor</u>	<u>Editora</u>
1	-Methods of Experimental Physics Vol.VI- Part.B Electrical Magnetic and Optical Properties	11.00	11.00	AP
1	-Solid State Physics-Advances in Research and Applications Vols.VIII,IX, X	40.00	40.00	
1	-Group Theory and its application to the Quantum Mechanics of Atomic Spectra-Wigner	8.80	8.80	AP
1	-Encyclopedia of Science and Technology- McGraw Hill	175.00	175.00	MG
1	-Termodinamica -Planck	6.00	6.00	Dover
1	-Tolman-The Principles of Statistical Mechanics -	12.00	12.00	Oxford
1	-Tolman-Relativity, Thermodynamics and Cosmology	12.00	12.00	Oxford
1	-Curney-Introduction to Statistical Mechanics	8.00	8.00	McGraw
1	-Abraham and Becker-Classical Theory of Electricity and Magnetism	10.00	10.00	Blackie
1	-Maxwell- Scientific Papers	5.00	5.00	Dover
1	-Persico-Principles of Quantum Mechanics	10.00	10.00	Prentice
1	-Bohm-Quantum Theory	10.00	10.00	Prentice
1	-Schiff-Quantum Mechanics	8.00	8.00	McGraw
1	-Mott and Massey-Theory of Atomic Collisions	10.00	10.00	Oxford
1	-Wentzel-Quantum Theory of Fields	10.00	10.00	Interscience
1	-G.S. Stephenson and Kilmister-Special relativity for Physicists	10.00	10.00	Longmans
1	-Longhurst-Geometrical and Physical Optics	10.00	10.00	Longmans
1	-Joos-Theoretical Physics	10.00	10.00	
1	-Mach-The Science of Mechanics	10.00	10.00	
1	-Wittaker-Analytical Dynamics	10.00	10.00	
1	-Byerly-Generalized Coordinates	10.00	10.00	
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211. Zariski ,O - Algebraic Surfaces. N.Y. (Reprint) 1948	\$ 4.50
212. Zygmund, A.- Trigonometric Series, 2 nd ed .2 vols. Cambr. 1959	\$ 27.50
213. Kelley J.L.- General Topology N.Y. 1955	\$ 8.75

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T O T A L

Attention! Numbers before authors' names do not refer to catalogue numbers.



INSTITUTO DE MATEMÁTICA E FÍSICA DA UNIVERSIDADE DA BAHIA

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12	1811	Iman em barra retangular p/laboratório	1.10	13,20
12	1807	Idem,	0.30	3.60
12	1815	Idem,	0.50	6.00
12	1816	Idem,	1.10	13.20
5	1829	Iman de ferradura " "	1.25	6.25
10	1809-A	Iman de almico	1.85	18.50
10	1812-A	Iman de almico cilindrico" "	0.90	9.00
10	1812-B	Iman de almico cilindrico" "	2.50	25.00
10	1812-C	Idem,	6.75	67.50
10	1814-A	Blocos de iman de almico	1.25	12.50
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2	1965	eletroscópio	7.50	15.00
2	2273	Célula Padrão	45.00	90.00
2	2273-C	Idem,	17.00	34.00
2	2392	Bobina de indução	130.00	260.00
3	2608	Transformador de voltagem variável	27.50	82.50
1	2687	Galvanômetro tangente	78.50	78.50
2	2704	Galvanômetro	27.70	53.40
1	2706	Galvanômetro balístico	66.00	66.00
1	2705	Idem, tipo R, 0,5 microcolt	96.00	96.00
1	2705	Idem, 0,0001 amps.	96.00	96.00
3	2707	Lampada e escala p/galvanômetro	59.00	177.00
3	2738	Teloscópio de leitura p/galvanômetro	34.00	72.00
3	2713	Shunt de Airton	37.00	104.00
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3	3034-A	millivoltímetros " " "	17.50	52.50
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3	3031-J	Idem, " " "	17.50	52.50
3	3031-S	miliamperímetro " " "	18.50	55.50
3	3031-T	idem, " " "	18.50	55.50
3	3081-B	Voltímetro " " "	20.50	61.50
3	3081-C	Idem, " " "	20.50	61.50
3	3081-T	Amperímetro " " "	21.00	63.00
3	3081-D	Amperímetro " " "	19.50	58.50
3	3081-F	Idem, " " "	19.50	58.50
3	3081-H	Idem, " " "	19.50	58.50
1	3006-E	Millivoltímetros " " "	38.50	38.50



QUANT. Nº DO CA- TALOGO	ESPECIFICAÇÃO	PR. UNIT.	VALOR
1	3006-G	Milivoltímetros de precisão p/laborat.	38.50 38,50
1	3018-B	Voltímetro " " " "	46.50 46.50
1	3018-E	Idom, " " " "	46.50 46.50
1	3018-J	idem, " " " "	46.50 46.50
1	3018-N	idem, " " " "	46.50 46.50
1	3018-U	idem, " " " "	46.50 46.50
1	3019-L	Microamperímetro " "	57.50 57.50
1	3019-H	Idom, " " " "	57,50 57.50
1	3009-F	Miliamperímetro " "	39.75 39.75
1	3009-B	Idom, " " " "	39.75 39.75
1	3023-E	Amperímetro " "	43.35 43.35
1	3023-G	Idom, " " " "	43.35 43.35
1	3023-P	idem, " " " "	43.35 43.35
1	3076	Voltímetro " " " "	46.50 46.50
1	3076-A	Voltímetro " " " "	46.50 46.50
1	3076-B	Idom, " " " "	46.50 46.50
3	2754-B	Caixa de resistências	38.75 116.25
3	2756	Idom,	44.50 135.50
3	2756-1	Idom,	56.00 168.00
1	2753	Caixa de resistência	44.00 44.00
1	2753-B	idem,	47.25 47.25
1	2753-E	idem,	66.00 66.00
3	2826	Resistência 100 ohms	5.00 15.00
3	2826	idem, 1 ohm	5.00 15.00
3	2826	idem, 2 ohms	5.00 15.00
3	2826	idem, 5 ohms	15.00
3		10 ohms	15.00
3		50 ohms	15.00
3		500 ohms	18.00
3		5000 ohms	7.50
2	2804	idem, tipo de caixa	2775 55.50
1	2744-A	Ponte de Wheatstone Loods an Northrup	107.00 107.00
1	2749	Ponte de Kolvin	184.00 184.00
2	2817	Potenciômetro	37.50 75.00
1	2749-B	Idom,	408.00 408.00
1	2152-B	Caixa de capacidades	17.25 17.25
1	2152-C	Idom,	14.75 14.75



QUANT. Nº DO CA- TALOGO	ESPECIFICAÇÃO	PR. UNIT.	VALOR	
1	2833-B	Condensador	80.50	80.50
2	2617-A	Condensador	74.50	149.00
5	2915	Contato de platina	18.75	93.75
2	623	Tubo de determinação de $\sigma/m$	75.00	150.00
1	623-A	Bobina de Helmholtz	128.00	128.00
1	620	Ap.p/determinação carga eletrônica.	225.00	225.00
1	620-K	Fonte de voltagem para 620	38.50	38.50
1	622	Placas para 620	68.50	68.50
10	2148-K	Contador elétrico	4.20	42.00
5	2148-	Célula fotoelétrica	12.00	60.00
5	2148-3	tubo Fotoelétrico	6.75	32.75
2	4854	Carta periódica dos elementos	7.50	15.00
2	2156	Contador de radioatividade	149.00	298.00
2	621-A	Aparelho para medição de raios alfa	79.85	159.70
2	5542	Espintaroscópio	6.85	13.70
1	2162	Contador Decimal	367.50	367.50
5	624-D	Tubos de radon	2.50	12.50
5		Sulfato de zinco fosforescente-garrafas de 25 gramas		
2	624	Retrosópio p/radioatividade	72.50	145.00
1	1973	Retrosópio oscilante	88.50	88.50
2	3583	Fotômetro	84.50	169.00
2	3584-A	Cabeça photoelétrica	28.50	57.00
10	3660	Lampada padrão	2.25	22.50
50	3595	Volts padrão	0.40	20.00
2	3622	Barra padrão graduada de 200 cm.	40.50	81.00
2	3622-A	Barra não graduada	18.00	36.00
4	3625	Paros de suportes p/banco ótico	8.75	35.00
20	3627	Suporte para banco ótico	9.50	190.00
10	2629	Sustentáculo p/lentes	2.45	24.50
4	3640	Fendas reguláveis	12.75	51.00
4	3642	Diafragmas reguláveis	12.50	50.00
2	2149	Suporte p/célula fotoelétrica	3.70	7.40
2	4310	Suporte para prisma	5.50	11.00
3	3680	Fonte luminosa p/banco ótico	22.25	67.25
4	H3550-C	Fonte luminosa	15.50	62.00
2	3714	Material polaróido	15.50	31.00



QUANT. Nº DO C.º	ESPECIFICAÇÃO	PR. UNIT.	VALOR
5	3480 Prisma 60º	1.00	5.00
5	3481 Prisma reto	1.10	5.50
5	3494 Placa prismática retangular do vidro	0.95	4.75
5	3498 Cubos do vidro	2.85	14.25
2	3484 Prisma montado	10.75	21.50
3	3399 Lonto	1.15	3.45
3	3400 idom	0.75	2.25
3	3404 idom	0.55	1.65
3	3408 idom	0.55	1.65
3	3409 idom	0.75	2.25
3	3410 idom	0.75	2.25
3	3412 idom	1.40	4.20
3	3413 idom	1.40	4.20
3	3413-i idom	1.40	4.20
3	3414 idom	1.40	4.20
3	3416 idom	2.15	6.45
3	3418 idom	3.00	9.00
3	3420 idom	4.75	14.25
3	3422 idom	5.00	15.00
3	3424 idom	1.15	3.45
3	3428 idom	1.15	3.45
3	3332 idom	1.15	3.45
3	3435 Lonto	1.25	4.25
3	3436 idom	1.45	4.35
3	3438 idom	3.35	10.05
4	3452 Lonto do condensador	3.50	14.00
2	3456 idom	3.50	7.00
2	3458 idom	4.50	9.00
1	3440 Conjunto de lentes	4.25	4.25
1	3443 idom	7.00	7.00
3	3448 Pares acromáticos	5.00	15.00
3	4328 Telescópio de leitura	16.50	49.50
3	4326 suporte do telescópio	4.05	12.15
5	3805-E Rodo de difração	2.50	12.50
5	3806-E idom	2.50	12.50
2	3870-i idom	6.00	12.00
2	3808-i idom	6.00	12.00
2	3812-i idom	15.00	30.00



QUANT. Nº DO C.A. TALOGO	ESPECIFICAÇÃO	PR.UNIT.	VALOR
2	3813 -A Rode de difração	15.00	30.00
2	3814-A idom	10.00	20.00
2	3815-A idom	10.00	20.00
2	3809-A idom	15.00	30.00
2	M5218 Placas de interferência	0.75	1.50
2	3552 Placas para anéis de Newton	3.95	7.90
12	3701 Filtros polaroides		50.00
24	3709-B Lâminas polarizantes	1.00	24.00
2	3704-A Instruções s/luz polarizada	0.50	1.00
2	3704-B Exercícios s/luz polarizada	0.35	0.70
5	4856-A Cartas de espectros	5.00	25.00
1	3687 Espectroscópio de visão direta	50.00	50.00
2	3720-G Lampadas de mercúrio	64.50	129.00
2	3720-B Lampada de sódio	100.00	200.00
2	3680 Fonte de luz universal	22.25	44.50
2	3680-B Complemento p/acima	1.75	3.50
10	3680-D Lampadas sobressalentes p/3680	1.75	17.50
2	3673-A Fonte de filamento concentrado	40.50	81.00
2	3680-K Lampada de arco	57.50	115.00
2	3661-S Filtros de cores	55.00	110.00
1	1575-B Cartazes de instrução em física geral	70.00	70.00
10	123 Níveis de bôlha(circular)	1.75	17.50
5	125 Nível de bôlha(hexagonal)	1.50	7.50
5	5808 Chamois	1.45	7.25
12	5889 Fio manganin 3 nº 10	1.35	4.05
1	4154-A Pesos de Laboratório	6.35	6.35
1	4156-A idom	11.00	11.00
1	4158-A idom	13.75	13.75
1	3362 idom 1/2 kg-	1.50	
1	1 kg-	1.85	
1	2 kg-	2.65	
1	5 kg-	-	
1	3360 Suporte para os pesos	2.35	
1	4180-A Pesos de laboratório	9.25	9.25
1	4194-A Pesos de laboratório	9.75	9.75
5	5903-A Papel de amianto	2.25	12.25
6	5665 Termômetro Weston de limbo circular - 3- 0º C a 100º C	7.50	22.50
	3- 0º C a 150º C	7.00	21.00



Nº QUINT	Nº DO CATALOGO	ESPECIFICAÇÃO	PR.UNIT.	VALOR
1	7970-D	Microscópio B & L modelo FPH-S		280.00
1	8008	Estágio mecânico, graduado		66.00
1	8015-A	JK-2.B & L		319.50
5	4625	Óleo de imersão para microscopia	0.50	2.50
3	8105	Placa graduada para ocular de Huygens	5.50	16.50

TOTAL GERAL DA LISTA "A" - US\$ 51.998,84



LISTA DO MATERIAL A SER ADQUIRIDO PARA O LABORATÓRIO DE BIOLOGIA B1

Cat. nº	M A T E R I A L	quant.	Price
D5.3	- Nereis virens	(1)	5.00
D6.27	- Limulus	(1)	4.25
D6.51	- Bombyx mori	(1)	8.25
D7.012	- Terebratella transversa	(1)	4.75
D7.013	- Lingula	(1)	6.00
D7.016	- Chaetopleura apiculata	(1)	4.25
D7.03	- Dentalium	(1)	4.75
D9.2	- Hippocampus	(1)	4.25
D9.36	- Grassfrog development stages	(1)	10.50
D9.692	- Heart set	(1)	26.50
	Testing sieves - Mesh - 4		14.95
	6		13.50
	8		13.50
	18		13.50
	30		13.50
	Dissecting Set. Advanced Zoology	(1)	10.00
	Nautilus pompilius 11x531		7.00
	Sepia officinalis		3.50
	Loligo 11x522		1.75
	Laquens californicus 10x22		1.00
	Laquens californicus 10x221		0.75
	Cryptochiton stelleri		4.00
	Nautilus pompilius 11x531		7.00
	Suail radula	(2)	1.80
	Grassfrog 13D466		8.00
	Sepia officinalis		3.50
110A33	Insect pins (a thousand)		7.00
	Handbook for shell collectors		10.00
	Walter Freeman Webb		
	2515 2nd Avenue North		
	St. Petersburg, Florida		



LAB. DE BIOLOGIA B1

	Price
The shell book	10.00
Julia E. Rogers Charles T. Branford Co., Publishers Boston, Mass.	
East Coast Marine Shells	10.00
Maxwell Smith Edwards Brothers, Inc. Ann Arbor, Michigan	
American seashells	10.00
R. Tucher Abbott, M. S. D. Van Nostrand Company, Inc.	
A text-book of Zoology - Vol. I and II	<u>10.00</u>
T. Jeffrey Parker and William A. Haswell Mas Millan and Co., Limited	
<u>TOTAL</u>	252.75

MATERIAL TO BE ORDERED FROM WARD'S NATURAL SCIENCE ESTABLISHMENTMINERALOGY LABORATORY COLLECTIONS AND EQUIPAMENT

NO	I T E M	Cat. No	PRICE
5	Pocket set of hardness points	C-2500	30.00
10	Moh's hardness scale	MC-150	14.50
5	Cleavage collection	MC-152	6.75
1	Fracture collection	MC-154	4.50
1	Luster collection	MC-156	15.00
1	Crystalline aggregates	MC-160	9.50
1	Natural crystals	MC-180	17.50
1	Standard collection of L-W fluorescent minerals	MC-505	16.00
1	Standard collection of S-W fluorescent minerals	MC-560	12.00



<u>KRANTZ CRYSTAL STRUCTURE MODELS</u>		<u>18339</u>	
NO	I T E M	Cat. No	PRICE
1	Sodium chloride		23.00
1	Diamond		28.00
1	Graphite		23.00
1	Calcite		18.00
1	set of Krantz Si-O crystal structure models	354-46	47.50
1	Dunn Hornblende model	C-3525	12.50
1	Dunn uniaxial ellipsoid model	C-3530	16.25
1	Dunn biaxial ellipsoid model	C-3535	25.00

SPECIAL CHARTS AND PLASTIC RELIEF MAPS

1	Chart, Relationships of the Animal Kingdom	- - -	21.50
1	Relief map of Europe	C-4716	39.50
1	Relief map of Venezuela	C-4717	39.50
		?	?

WARD'S GEOMORPHOLOGICAL MODELS

C-4705

1	No. 14, Folding		9.60
1	No. 15, Pitching anticline		9.60
1	No. 18, Horsts and grabens		9.60
1	No. 20, Appalachian Mountains		9.60

SHALER-DAVIS GEOMORPHOLOGICAL MODELS

C-4703

1	Series B, Stratification		60.00
1	Ward's fault block models	C-4702	54.00

FOSSILS

1	Nautilus pompilius, one-half of bisected shell showing siphuncle		6.00
	Collection of Trilobita	P-86	40.00

FIELD EQUIPMENT

1	Belectron DC-7 Geiger Counter	C-2452	135.00
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EQUIPMENT FOR PREPARING THIN SECTIONS

No	I T E M	Cat.n <sup>o</sup>	PRICE
1	Felker Di-Met Diamond Saw, Model 11-R with Precision Slide Rotary Table	C-4020	296.75
3	6" x 0.032" diamond blades, each \$11.75	C-4017	35.25
6	8" x 0.040" Diamond blades, each \$17.00	C-4017.1	102.00
2	Petrographic specimen polishers, each \$340.35	C-4049	680.70
6	Cast iron polishing plates, each \$28.85	C-4050	173.10

ROCK SPECIMENS

Specimens of 60-65 rocks at an average cost of \$1.50 per specimen 100.00

MINERAL SPECIMENS

Specimens of approximately 100 minerals for teaching purposes, at an average cost of \$5.00 per sample 500.00

ADDITIONAL MATERIAL

Gold Seal Petrographic Microscope Slides; three gross at \$3.60 per gross C-5051 10.80  
 (note: slides of this size and quality are not available in Brasil).

GOLD SEAL COVER GLASSES

C-845

15-mm.circles, 2 ozs., at \$3.25 per oz.	6.50
18-mm.circles, 2 ozs., at \$2.50 per oz.	5.00
22x35 mm. rectangles, 6 ozs., at \$2.50 per oz.	15.00
Lakeside No.70 Thermoplastic Cement, 2 dozen bars	C-4006 7.00
Caedex Mounting Medium, 2 100-gm bottles	C-5076 4.50
Refractive Index Liquids Series 1.66-1.80	C-2656.2
0.71-1.72, one bottle each, at \$2.50 per bottle	5.00



MATERIAL FROM WARD'S (continued)

-5-

No	ITEM	Cat.No	PRICE
	1.74-1.78, one bottle each, at \$3.50 per bottle		17.50
	1.79, one bottle		4.00
	1.80, one bottle		5.00
TOTAL -US\$2.721.00			

MATERIAL TO BE ORDERED FROM FISHER SCIENTIFIC COMPANY

1	Sieve Shaker, Ro-Tap, electrically driven, for 115 volts, 60 cycle AC	4-906 A	399.50
	<u>U. S. STANDARD SIEVES</u>	4-881	
1	No.18 (opening 1000 microns)		7.35
1	No.120 (opening 500 microns)		8.10
1	No.120 (opening 125 microns)		8.10
1	No.230 (opening 62 microns)		19.65
2	Magnets,alnico, extra-large, each \$2.50	12-012	5.00
2	Magnets,alnico, large, each \$1.75	12-013	3.50
20	Magnets,alnico, small, each \$1.00	12-014	20.00
1	Metallographic specimen mounting press	12-251	225.00
10	pounds black Bakelite molding powder, at \$0.60/lb	12-253	6.00
			--
			--
1	Set of refractive index liquids, Shillaber, set of 76	13-946-5	53.50
1	Refractometer, Fisher	13-947	67.50
1	Lamp, ultraviolet, laboratory model, short wave (2537 Angstrom units)	11-984-10	19.50
1	Sodium vapor lamp	11-985	95.00
TOTAL US\$			976.45



MATERIAL TO BE ORDERED FROM MINIFILM PHOTO CORPORATION

167 W. 32nd Street  
New York 1, N. Y.

Exacta VXIIa Camera Outfit with f:2 Auto Biotar lens, eye level  
pentaprims range finder-View finder, extra ground glass  
insert, 135 mm. f:3.5 present telephoto, complete set of  
extension tubes, BC flashgun and bracket, leather case, a  
and bonus free leather gadget bag..... 239.00

TOTAL DA LISTA "A" ..... US\$ 4.150,45

/vc.



## S I N A Y N E V E S &amp; C I A L T D A

M A T R I Z:

PRAÇA CASTRO ALVES, 5 BAHIA

MATERIAL DESTINADO À DEMONSTRAÇÃO E ENSINO DE ENGENHARIA, CLASSIFICAÇÃO ALFANDEGÁRIA Nº 90-26.

1 - Gabinete para as cadeiras de Estabilidade das Construções, Resistência dos Materiais e Grandes Estruturas, de fabricação da AMSLER COMPANY - SUISSA, constituído de:

- 1 - Prensa "Amsler" de 200t, tipo 200D79, hidráulica para ensaios de compressão.
- 1 - Máquina de flexão "Amsler", de 10t, tipo 10B 779 para ensaios de flexão em vigas de madeira, concreto etc.
- 1 - Pegâmetro quadrúplo "Amsler", tipo RC-143.
- 1 - Aparelho de construção "Amsler" tipo S - 151.
- 1 - Aparelho de permeabilidade "Amsler", tipo W - 150.
- 1 - Pêndulo de Resistência "AMSLER" de 30 kgm tipo 30HP 130.
- 1 - Máquina de dividir "AMSLER" tipo CM - 163.
- 1 - Microscópio de medição "AMSLER" tipo KM - 36.
- 1 - Caixa de taragem "AMSLER" de 200t.
- 1 - Integrador "AMSLER" tipo 627.
- 1 - Máquina universal de 4.000kgm, para ensaios de madeira, electricidade.

Prêço total F O B.....

US\$ 31.320,00

1 - Gabinete para as Cadeiras de Materiais de Construção e Mecânica dos Solos, de fabricação da Soiltest Corporation U.S.A., constituído de:

- 1 - CN - 436 - Mold heated compaction foot (4")
- 1 - CN - 437 - Mold heated compaction foot (6")
- 1 - CN - 438 - Inside diameter compaction mold and base (6")
- 1 - CN - 439 - Wedge shaped compaction foot
- 1 - CN - 440 - Electrically driven conveyor
- 1 - CT - 386 - Kelly Ball
- 2 - AP - 126 - Orifice wrench
- 2 - AP - 128 - Tube wrench
- 2 - AP - 120 - Brass Saybolt Viscosity tube



2 - AP - 303 - Viscosity Saybolt  
 2 - AP - 304 - " "  
 2 - AP - 305 - " "  
 2 - AP - 306 - " "  
 2 - AP - 307 - " "  
 2 - AP - 308 - " "  
 2 - AP - 310 - " "  
 2 - AP - 311 - " "  
 2 - AP - 312 - " "  
 2 - AP - 313 - " "  
 2 - AP - 315 - " "  
 1 - CT - 56 - Capping Set  
 2 - AP - 494 - Hveen Stabilometer Diaphragms  
 1 - TH - 402 - Humidifier  
 1 - TH - 435 - Humidistat Controller  
 1 - CT - 712 - Portabel Concrete Tester  
 1 - CT - 715 - Electric Pump Attachment  
 1 - CT - 365 - Wagner Turbidimeter  
 1 - CT - 383 - Cement Autoclave  
 1 - CT - 387 - Water Retention Apparatus  
 1 - CT - 388 - Reaction Container  
 1 - CT - 397 - Heat of Hidration apparatus  
 1 - CT - 394 - Cement Steaming Cabinet  
 1 - CT - 700A - Cement Briquette Tester  
 1 - CT - 701 - Set of two jaws for CT-700-A  
 2 - CT - 62 - Cement Briquette Mold  
 1 - CT - 86 - Brick Flexure Attachment  
 1 - CT - 345 - Mortar Mixer  
 1 - CT - 407 - Flexural Strenght attachment  
 6 - CT - 408 - Molds  
 2 - AP - 314 - Viscosity Saybolt  
 1 - CT - 409 - Molds  
 1 - CT - 411 - Soil cement cylinder capper  
 1 - CT - 419 - Mortar Penetrometer  
 1 - CT - 420 - Abrasion Resistance of Concrete or Mortar Surfaces  
 1 - AP - 234 - 235 - 237 - Pensky-Martens & Tag-Flash test Termometer  
 1 - AP - 155 - Ritumen soluble in Carbon Tetrachloride Set  
 1 - CT - 126 - Precision Air ontrainment meter  
 1 - CT - 155 - Roll-a-meter  
 1 - CT - 158 - Concrete air indicator  
 1 - CT - 160 - Laboratory vibrator  
 2 - CT - 159 - Bristol cylinder Carrier  
 3 - CT - 170 - Concrete cylinder compressometer  
 1 - CT - 164 - Vibrating table



1 - CT - 180 - Creep Apparatus for Concrete  
 1 - CT - 370 - Dunagan Test Set  
 1 - CT - 360 - Sonometer  
 1 - CT - 362 - Oscilloscope  
 1 - CT - 300 - Specimen cutting machine  
 6 - CT - 303 - Replacement blades  
 6 - CT - 304 - Replacement blades  
 1 - K - 900 - Concrete permeability apparatus  
 2 - AP - 475 - Complete Expansion Pressure Device  
 1 - CT - 384 - Length Comparator  
 1 - CL - 325 - Mechanical Testing Screen  
 1 - AP - 110 - Saybolt Viscosimeter  
 2 - AP - 129 - Saybolt Viscosity Flask  
 2 - AP - 124 - Saybolt Viscosity Tube  
 1 - AP - 101 - Ductility Machine  
 1 - AP - 102 - Ductility Mold  
 1 - AP - 103 - Ductility Mold Plate  
 1 - LT - 475 - Stop Watch  
 1 - AP - 182 - California extractor complete  
 1 - AP - 200 - Penetrometer  
 1 - AP - 243 - Cleveland Flash Point Tester  
 1 - AP - 245 - Cleveland Flash Point Cup  
 1 - AP - 255 - Asphalt Oven  
 1 - AP - 490 - Hveem Stabilometer  
 1 - AP - 492 - Hveem Cohesimeter  
 2 - AP - 491 - Hveem Test molds  
 1 - AP - 493 - Hveem Mold Holder  
 1 - AP - 350 - Versa Tester  
 1 - AP - 495 - Hubbard Field Stability apparatus  
 2 - G - 202 - Thermometer Range 0°-150°C  
 2 - G - 203 - Thermometer Range 0°-250°C  
 2 - G - 207 - Thermometer Range 0°-300°C  
 2 - G - 200 - Thermometer Range 0°- 50°C  
 1 - AP - 254 - Teg Closed Tester  
 1 - L - 232 - Forced Air Oven  
 1 - PR - 502 - Calibration Kit  
 1 - CL - 700 - Pocket Penetrometer  
 1 - CN - 700 - CBR Laboratory Set  
 2 - Mechanical Granulometric Set  
 1 - CN - 465 - Miniature CBR Set  
 1 - CL - 392 - Motorized Dynamic Shaker  
 1 - T-115-2D - Double Duty Triaxial Assembly  
 1 - T-125 - Norwegian Triaxial Apparatus



1 - T - 125 - Norwegian Triaxial Apparatur  
 1 - T - 127 - Constant Pressure Cell  
 1 - P - 400 - Motorized Soil Lathe  
 1 - P - 406 - Trimming Frame  
 1 - PP - 32 - Manuel Pore Pressure Apparatus  
 1 - PP - 30 - Automatic pore pressure apparatus  
 1 - C - 226 - Levermatic with Automatic Beam  
 2 - C - 252 - Fixed type consolidometer  
 12 - T - 795 - Wall triaxial membranes  
 12 - T - 797 - Wall triaxial membranes  
 12 - T - 800 - Wall triaxial menbranes  
 2 - C - 270 - Floating type consolidometer  
 2 - C - 272 - Floating type consolidometer  
 6 - T - 300 - Triaxial porous stones 1 1/4 x 12"  
 6 - T - 301 - Triaxial porous stones 1.875 x 1/4"  
 6 - T - 304 - Triaxial porous stones 2.8 x 1/4"  
 6 - T - 306 - Triaxial porous stones 4.0 x 1/4"  
 1 - L - 36 - Con-wate Mechanical Convection Oven  
 1 - CN - 650 - Field Compaction Kit  
 1 - CN - 600 - Field Density Set  
 1 - CL-X2 - Bentonite Liquid Limit Testing Set  
 1 - C - 290 - Volume Chage Apparatus  
 1 - CL - 244 - Precision sample Splitters  
 1 - U - 524 - Air Storage Tank  
 1 - C - 200 - Consolidatio Specimen Trimmer  
 1 - K - 665 - Consolidation Permeability  
 1 - L - 795 - Cenco Moisture Balance  
 1 - CN - 404 - Modified Compaction Mold  
 1 - CN - 425 - Electro-Hydraulic Compactor  
 1 - MC - 320 - Speedy Moisture Tester  
 1 - L - 5 - Single wall ovens  
 2 - CL - 210 - Atterberg Limits Sets  
 1 - CL - 331 - Mechanical Timer  
 1 - L - 114 - Warmers  
 1 - MC - 310 - Fiberglas Soil Cell  
 1 - MC - 300 - Moisture Meter  
 1 - PP - 25 - Triaxial pore Pressure apparatus

P R E Ç O T O T A L ..... US\$ 41,985,90



MATERIAL DESTINADO A DEMONSTRAÇÃO E ENSINO DE ENGENHARIA CLASSIFICAÇÃO  
ALFANDEGÁRIA Nº 90-26

Relação dos aparelhos destinados aos Gabinetes de  
Departamento IV, Estradas, Topografia e Geodésia.

<u>PROCEDÊNCIA - INGLATERRA</u>	<u>PRICE</u>
2 Aneroides Watts, da Hilger & Watts, leitura de metro em metro, até 2.000mts. ref. SR-26	118,00
2 Bússulas prismáticas Watts, Hilger & Watts, ref. B-562, imersa em líquido.	64,00
2 Níveis automáticos Cowley da Hilger & Watts, completos.	118,00
2 Molinetes Watts SK-3.	696,00
6 Eclímetros Watts, da Hilger & Watts, ref. B-618	138,00
2 Transito de bolso, Hilger & Watts, ref. B-536.	118,00
3 Taqueômetros Watts c/tripé extensível e bússola tubular mod. ST-150, da Hilger & Watts:	1.785,00
2 Níveis Watts SL-151, c/tripé extensível, Hilger & Watts.	560,00
2 Taqueômetros Watts nº 2, c/iluminação elétrica, tripé extensível e bussola tubular.	2.228,00
2 Planímetros Albrit, Hilger & Watts, P-2336-A, sistema métrico.	39,50
2 Alidades Watts, da Hilger & Watts, completas, modelo único	1.040,00
2 Barômetros, tipo Paulin, modelo único	368,00
PREÇO TOTAL.....	<u>US\$ 7.272,50</u>

PROCEDÊNCIA - SUISSA

3 Taqueômetros Wild T-1, c/tripé extensível e bússola tubular.	1.788,00
3 Níveis Wild N-II, da Wild Heerbrug, c/tripé extensível	834,00
1 Nível Wild N-III, da Wild Heerbrugg, c/tripé extensível	498,00
2 Taqueômetros, Wild, autoreductor, c/tripé extensível e acessórios normais.	2.750,00
1 Taqueômetro Wild T-3, c/tripé, e acessórios normais	1.972,00
6 Cronômetros siderais "Longines"	870,00
2 Cronômetros médios "Longines"	210,00



	<u>PRICE</u>
2 - Estereoscópios Wild ST-3	916,00
1 - Basímetro Wild completo	1.245,00
1 - Telêmetro Wild c/suporte goniométrico, tipo TM-10	1.964,00
2 - Telêmetros Wild portateis para 350 ms	350,00

PREÇO TOTAL ..... US\$ 13.397,00

PROCEDÊNCIA - ALEMANHA

2 - Projetores Zeiss, modelo Vh-400, c/lâmpada de 500 watts, corrente 110volts.	510,00
1 - Coordenatógrafo A.OTT, modelo único, ref.430	430,00
2 - Taqueômetros Carl Zeiss Th-3	2.800,00
2 - Níveis Carl Zeiss Ni-3	1.240,00
2 - Níveis Carl Zeiss Ni-2	910,00
2 - Estereotopo Zeiss completo	520,00
1 - Modelo de freio c/pêndulo de reação, da Werner Degener	300,00

PREÇO TOTAL..... US\$ 6.710,00

1 - Gabinete para as cadeiras de Construções Cíveis e Arquitetura constituído de:

PROCEDÊNCIA - AMERICA ( U S A )

1 - DR - 735 - Plate bearin test
1 - DR - 722 - 100.000 pound hidraulic jack and gage
1 - DR - 730 - Soil anchor ( 2 peças )
1 - CT - 30 - Laboratory concret mixes
1 - CT - 205 - Curing cah, carton of 6
1 - CT - 51 - Horinzontal Capping set
1 - CT - 160 - Laboratory Vibrator
1 - CT - 164 - Vibrating table
1 - CT - 360 - Sonometer
1 - Oscillograph da <u>Soil Test Incorporated</u>
1 - Portable lance type Pirometer, da <u>K. H. Huppert Co.</u>
1 - 1555 - A - Sound survey meter
1 - 1552 - B - Sound level calibrator
1 - 1307 - A - Transitor oscillator
1 - 1262 - B - External - Power suply
1 - 1560 - P - 91-Adaptors ( 2 peças )
1 - 1560 - P - 94-Adaptor Cable ( 2 peças )
1 - 1556 - A - Impact Noise analizer
1 - 760 - B - Sound analyzer - Narrow-Band



- 1 - 1550 - A - Octave-band noise analyzer
- 1 - 1521 - A - Graphic level recorder da General Radio Company
- 1 - 703 - Sigh meter ( type 7 )
- 1 - 703 - Screen Illumination Meter
- 1 - 9924 - Multiplier Disc da Weston Electrical Instrument
- 1 - Aparelho para determinação de permeabilidade de solos de areia e argamassa, modelo K-620, marca Soiltest
- 1 - Máquina Los Angeles para a medição de abrasão de materiais, modelo M-500 , marca Siltest

PREÇO TOTAL ..... US\$ 6.773,50

PROCEDÊNCIA - ALEMANHA

- N - 58 D - New bimetalic actionograph
- N - 98 - Wind Uane With Force indicator, da R. Fuess

PREÇO TOTAL ..... US\$ 235,00

PROCEDÊNCIA - HOLANDA

- 1 - G - 19 - Solarimetro ( Solbase )
- 1 - G - 17 - Hemispherical Gauss Dome for G - 19 (Solmuntu)
- 1 - C - 37 - Recording millivoltmeter ( Remilvo )
- 1 - C - 38 - Rolls of recorder chart (6), (Revepa)
- 1 - G - 10 - Actin
- 1 - G - 9 - Solmil
- 1 - A - 10 - Porta
- 1 - B - 17 - Porlam
- 1 - S/N - Radiatiometer - (review - 57), da P.I. Kipp Zonen

PREÇO TOTAL ..... US\$ 837,00

PROCEDÊNCIA - SUISSA

- 1 - Super Stoboscope com equipamento completo, da Kern Cia.

PREÇO TOTAL ..... US\$ 850,00

PROCEDÊNCIA - LONDRES

- 1 - Photoelectric tristimulus
- 1 - Colorimeter - 1 20 e acessórios
- 1 - " - I 21 " "
- 1 - " - I 22 " "
- 1 - " - I 23 " "



- 1 - Colorimeter - I 25 e Acessórios
- 1 - " - I 26 " "
- 1 - " - I 28 " "
- 1 - " - I 29 " "
- 1 - " -FL 262 " "
- 1 - " -FL 224 " " , da Hilger Watts Ltda.

PREÇO TOTAL ..... US\$ 525,00

PROCEDÊNCIA - JAPÃO

- 1 - Conjunto para experiências caloríficas, modelo nº 19, marca SHIMADZO.
- 1 - Projetor de perfis, tipo SHADOWGRAPH, marca NIPON KOGAKU

PREÇO TOTAL ..... US\$ 670,00

PROCEDÊNCIA - INGLATERRA

- 1 - Aparelho para determinação de unidade de areia e solos, tipo " SPEDDY ", marca TOMAZ ASHWORTH.

PREÇO TOTAL ..... US\$ 80,00

PROCEDÊNCIA - ALEMANHA

- 1 - Máquina LEIKA M-3

PREÇO TOTAL ..... US\$ 350,00

- 1 - Gabinete para a Cadeira de Motores Termicos e de Explosão, constituído pelos seguintes aparelhos:

PROCEDÊNCIA - AMÉRICA ( U S A )

- 1 - Motor C.F.R. Wankesha com freio dinamométrico elétrico e velocidade variável.
- 1 - General Motors Cutaway Engine (Diesel Engine 6-71), da Korody Marine Corporation.
- 1 - Vibration Meter - Type 761 - A
- 1 - Vibration Analyzer - Type 762 - B, da General Radio Company

PREÇO TOTAL ..... US\$ 12.595,00



PROCEDÊNCIA - DINAMARCA

1 - H & A Engine Stand Dynamometer nº 201, da H.P. Anderson

PREÇO TOTAL ..... US\$ 2.500,00

PROCEDÊNCIA - ALEMANHA

1 - Modèle de démonstration, Frein a air comprimé, da Werner Degener

1 - Modèle original, Frein a air comprimé, da Werner Degener

1 - Transitômetro - M D S -2, M D S-32 a 39, da H. Maihak A.G.

1 - Indicador de Wa<sup>t</sup>, da H. Maihak A.G.

1 - Indicateur inductifs de pressions jusqu'a 1.000 kg/cm<sup>2</sup>

1 - " " de la course des pistons

1 - " " de vibrations

1 - " " de acelerations

1 - " " de basse pression

1 - Apareil dynamique d'étalonnage de pression

1 - Indicateur de couple

1 - " pour mesures de puissance

1 - " de pression ( piezometre ) (vários tipos)

1 - " de torsion, da Staiger - Mohilo Company

PREÇO TOTAL ..... US\$ 9.680,00

PROCEDÊNCIA - SUISSA

Manometros - Grupos: 0102 - 0108 - 0110 - 0111 - 0112 - 0120

0124 - 0126 - 0127 - 0204 - 0205 - 0401 - 0403.

Termômetros - Grupos: 0501 - 0503 - 0505 - 0506 - 0507 - 0602 - 0603 - 0613 -

0702 - 0706.

Higrômetros e Psicrômetros - Grupos: 0803 - 0807 - 0900 - 0901 - 0906 da  
Heanni & Co. Ltda.

Aparelho para Testar manômetros - 1202, da Heanni & Co. Ltda.

PREÇO TOTAL ..... US\$ 5.600,00



ESCOLA POLITÉCNICA

10

DEPARTAMENTO DE QUÍMICA

Pedido de material, para importação, da Holanda

Fornecedor: Philips ' Gloeilampenfabrieken  
Eindhoven - Holanda

<u>Modelo</u>	<u>Quantidade</u>	<u>Especificação</u>	US\$
<u>Contador de cintilação, tipo pôco</u>			
PW 4118	1	Cristal de cintilação .....	378,00
PW 4114	1	Adaptador para cristal, na sonda PW 4111	30,00
PW 4125	1	Suporte para sonda de liquido .....	50,00
PW 4123	1	Tampa para castelo de chumbo .....	30,00
PW 4124	1	Anel para castelo de chumbo .....	25,00
 <u>Equipamento para contagem beta de baixo nível</u>			
PW 4022	1	Fonte de alta tensão .....	300,00
PW 4092	1	Unidade de anticoincidência .....	250,00
PW 4127	1	Castelo de chumbo especial, com contador de medida e de proteção contra raios cósmicos .....	1.700,00
 <u>Isótopos radioativos, para calibração</u>			
DRN 8321/9	1	Fonte de Bi207	200,00
DRN 5522/9	1	Fonte de Cs137	160,00
DRN 4821/9	1	Fonte de Cd109	110,00
 <u>Soluções de isótopos radioativos</u>			
DRN 3800	1	1. 5 mc de Sr90, como Sr. (NO3) 2 ....	70,00
DRN 5500/9	1	1 mc de Cs137 " CsCl .....	25,00
.....1		<u>Fonte de neutrons Ra-Be, 100 mc</u>	<u>4.600,00</u>
Total .....			US\$ 7.928,00



DEPARTAMENTO DE QUÍMICA

Pedido de material, para importação, da Inglaterra

Material "Hilger" - Londres

M. 456	-	Refractômetro Hilger-Chance		
M. 414	-	Conjunto de 7 filtros coloridos (accessórios refractômetro)		
FL. 70	-	Lâmpada de sódio, 45 w	"	"
FL. 73	-	Auto-transformador para FL. 70 110/130 volts. 50 c.	"	"
FL. 72	-	"Stand" com suporte para a lâmpada	"	"
FL. 62	-	Lâmpada de mercúrio, 100/250 v.	"	"
FL. 68	-	Suporte e resistência para FL.62	"	"
FL. 30	-	Tubo de descarga de hidrogênio	"	"
FL. 43	-	Tubo de descarga de hélio	"	"

Custo global ..... US\$ 1.700,00

Pedido de material, para importação, da SUISSA

Fornecedor: Lendis & Gur SA. Zug - SUISSA

Conjunto para coleta de aerosol ( poeira atmosférica) e registro contínuo e permanente no mesmo de variação de atividade devida a emanção natural e produtos de fissão, composto de:

- a) Equipamento de detecção, modelo 9593, com bomba aspiradora, fluxímetro, indicador de tempo e câmara de análise.
- b) Equipamento de medida, modelo 9590, com "ratemeter", registrador de atividade e de fluxo.
- c) 2 contadores extra, tipo EW. 3H
- d) 5 róis de papel de filtro especial, com 10 m cada
- e) 5 róis de papel para registrador, com 15 m cada
- f) 3 róis com 20 m de cabo

Custo do conjunto ..... US\$ 6.000,00

Fornecedor: E. Mettler - Pelikanstrasse 19  
Zurich - SUISSA

Balanças analíticas:

1 balança modelo B5 C1000 .....	US\$ 800,00
4 balanças " H5 .....	2.800,00



Balanças analíticas:

1	balança modelo H15 .....	US\$ 770,00
1	balança " H16 .....	US\$ 895,00

Pedido de material para importação, da SUÍÇA

Fornecedor: Metrohm Ltd. - Herisau - SUÍÇA

1	<u>Conductômetro, modelo E182</u> .....	US\$ 1.000,00
3	Buretas de pistão, modelo E274, para 10 ml	US\$ 300,00
3	" " " " " " 20 ml	US\$ 380,00
<hr/>		
Total	.....	US\$ 12.945,00

Pedido de material, para importação, dos EE.UU.

Fornecedor: Fisher Scientific Co. (Catálogo 111 e suplemento do catálogo 111)  
New York 635 - Greenwich 14 - EE.UU.

Modelo	Quantidade	Especificação	US\$
1-107-A	3	Bomba de vácuo (0,1mm Hg) .....	900,00
1-093-A	3	Bomba de vácuo ( 110v ) .....	750,00
4-191	2	Massarico universal .....	150,00
11-472	6	Mantas aquecedoras Glas-Col para....	
		250 ml .....	30,00
	6	para 500 ml .....	42,00
	6	" 1000 ml .....	54,00
	6	" 2000 ml .....	72,00
9-521	10	Transformadores variáveis (poworstat)	500,00
15-179	6	Termoregulador elétrico .....	180,00
11-472-60	4	Pirômetro .....	60,00
11-499	2	Placa aquecedora (Lindberg) .....	40,00
11-427	1	Aquecedor ( full Control ).....	50,00
11-463-20	2	Fita aquecedora (6').....	20,00
11-504-5	3	Radiador infra-vermelho .....	45,00
11-504-15	10L	Resistência extra p/11-504-5 .....	50,00
14-497	3	Agitador elétrico (110V).....	90,00
14-502	6	Agitador elétrico (110V).....	210,00
<hr/>			
A transportar	.....		US\$ 3.243,00



<u>Modelo</u>	<u>Quantidade</u>	<u>Especificação</u>	US\$
		Transporte .....	3.243,00
14-511-50	6	Agitador Magnético .....	240,00
14-511-55	12	Barras extra para 14-511-50 .....	24,00
14-511-60	12	Barras extra para 14-511-50 .....	24,00
13-874-93	6	Bomba de Circulação ( midget) .....	300,00
11-487-15	4	Vaso de reação para resina .....	50,00
11-487-15	4	Manta aquecedora p/11-487 .....	36,00
3120	12	Dessecadores a vácuo .....	180,00
8-631	12	Dessecador Pyrex .....	150,00
1-918-5	4	Balança analitica Seederer Kohlbush .	2.000,00
2-2-16	4	Caixa de pêso, classe S .....	80,00
2-219	2	Caixa de pêso, classe S .....	40,00
5-756	36	Mufra para suporte .....	36,00
8-303	1	Pulverizador, com motor .....	10,00
4-940	1	Amostrador Rifle ASTM .....	200,00
5-772	50	Pinça Castaloy .....	150,00
4-978	10	Centrifuga .....	200,00
9-788	2	Filtrador .....	20,00
9-789	2	Filtrador .....	20,00
4-979-A	1	Centrifuga .....	100,00
5-495-R	1	cx. Tubos 15 ml .....	15,00
20-183	1	cx. Microtubos 2 ml .....	20,00
	1	" " 3 ml .....	20,00
	1	" " 5 ml .....	20,00
9-328.	1	Potenciômetro, p/conductometria .....	200,00
9-339	1	Caixa de resistências, p/conductome - tria .....	200,00
9-345	1	Oscilador de áudio, p/conductometria.	200,00
9-347	1	Vibrador (bezouro), p/conductometria ..	80,00
9-366	1	Célula conductometria .....	50,00
9-367	1	" " .....	50,00
9-382	1	" " .....	50,00
11-251	1	Manômetro de McLeod .....	80,00
12-900	2	Ebuliômetro Cotrell .....	50,00
15-055	2	Termômetro diferencial Beckmann .....	60,00
9-110 (supl.)	1	Conjunto p/distilação fracionada, com- pleto.....	4.000,00
A transportar .....			12.198,00



Fornecedor: K.H. Huppert Co. - 6830 Cottage  
Grove Ave. - Chicago 37 - Ill .

<u>Modelo</u>	<u>Quantidade</u>	<u>Especificação</u>	US\$
Série 2 (de luxe)		Transporte .....	12.198,00
	6	Forno de Laboratório .....	800,00
	24	Resistências extras .....	48,00
	24	Pares termoeletricos extras .....	65,00

Coleman Instruments Inc.  
Mauwood - Ill. U S A.

21-000	1	Fotômetro de chama, com estabilizador eletrônico 6-054 e cabo 21-058 .....	565,00
21-201	1	Filtro .....	15,00
21-203	1	" .....	15,00
21-205	1	" .....	30,00
21-300	1	Atomizador .....	30,00

Arthur H. Thomas Co. - Vine St.  
et 3 rd - Philadelphia 5 - U S A.  
( Bulletin nº 114-A )

2128-F	12	Beaker em Teflon, 30 ml .....	60,00
	6	" " " 100 ml .....	40,00
2992-P	48	Tubos para centrifuga, em propylene .....	12,00
2992-P2	4 dz.	Rolhas p/2992-P .....	6,00
2992-T	12	Tubos para centrifuga, em Teflon .	45,00
8433	24	"Policeman", em polietileno .....	10,00
8434	6	" " Teflon .....	8,00
9314-U	36	Rolha em polietileno, nº 9 .....	6,00
	36	" " " nº13 .....	6,00
	36	" " " nº16 .....	8,00
	36	" " " nº19 .....	8,00
	36	" " " nº22 .....	8,00
9823-E	12	Fresco lavador, 4 onças em polietileno .....	8,00
	12	Idem, 8 onças .....	9,00
9837-G	20	Vidro de relógio, Teflon .....	20,00

A transportar ..... US\$ 14.020,00



The Emil Greiner Co. - 20-26  
N. Moore St. - N. York 13-N.Y.

<u>Modelo</u>	<u>Quantidade</u>	<u>Especificação</u>	US\$
		Transporte .....	US\$ 14.020,00
G-3119	2	Bureta "Needle Valve", 100 ml .....	24,00
	12	Idem, 50 ml .....	93,00
	12	Idem, 10 ml .....	100,00
G-23675	2	Jôgo termômetros ASTM .....	418,00
G-12295	2	Potenciômetro Beckman, Zeromatic ..	450,00
41263	2	Electrodo p/G12295 .....	25,00
39271	2	Idem .....	25,00
39261	2	Idem .....	25,00
39296	2	Idem .....	25,00
39170	2	Idem .....	25,00
41236	2	Idem .....	25,00
39096	2	Idem .....	25,00
	2	Capacidade 10 ml .....	214,00
	1	Combinação 0,1 e 1,0 ml .....	120,00
15402	1	Ultramicro bureta <del>Gilfont</del> , 0,1 ml, ...	126,00
G-22362-A	2	Todd Spectranal .....	564,00
G-7373'	1	Distilador para determinação do equilíbrio líquido-vapor, com aquecimento elétrico externo (G7373-E).	66,00
G-7679	3	Aquecedor, embutido em sílica fundida .....	90,00
G-24911 NEL	1	Medidor de variação de capacidade .	98,00
G-15654	1	Microtitulador "Manostat" com microelectrodos Beckman .....	245,00
T-20882	2	Bomba de alto vácuo, Precision, modelo 75 .....	530,00
E.H. Sargent & Co. - 4647 W. Foster Ave - Chicago 30-111.- U S A.			
HF	1	Titrimetro Sargent-Jensen .....	425,00
S-29460	1	Electroanalizador Sargent-Slomin ..	325,00
S-29310	1	Polarógrafo, modelo XV .....	1.585,00
S-76490	6	Agitador magnético .....	210,00
S-29700	1	"Sargent-Malmstadt Spectro-electro Titrator", modelo SE .....	690,00
A transportar .....			US\$ 20.568,00



Continuação da 11. 5

General Radio Co. - 6605 W. North Ave. - Oak Park - Ill. - U S A.

<u>Modelo</u>	<u>Quantidade</u>	<u>Especificação</u>	US\$
		Transporte .....	20.568,00
1650-A	1	Ponte de impedância, universal, transistorizada .....	440,00

Raytheon Manufacturing Co. 589 Fifth Ave. New York - N. Y.

DF-101	1	Oscilador sônico, 10 kc 250 watts .....	1.800,00
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Brush Electronic Co. Dept. Q-7 3405 Perkins Ave. Cleveland 14 - Ohio - U S A.

.....	1	"Hipersonic Transducer", 1000w/cm <sup>2</sup> , 100 a 1000 kc.....	3.000,00
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Tektronix Inc. - Portland 7 Ore - U S A.

531-A	1	Oscilógrafo, com preamplificador tipo L, 2 feixes e câmara registradora cinematográfica .	3.000,00
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Tracorlab - 1601 Trapelo Road Waltham 54 Mass. - U S A.

TGG-9	2	Contador Geiger, janela de mica 2 mg/cm <sup>2</sup> .....	80,00
TGG-S	1	Contador Geiger, p/gama .....	70,00
E-3-A	1	Jogo de absorventes de alumínio, calibrados, para determinação de energia beta .....	85,00
R-1	1	Fonte calibrada de Co <sup>60</sup> .....	20,00
...	1	Fonte calibrada de RaD .....	20,00
E-8-B	2	Funil de precipitação .....	40,00
E-29	2	Funil de precipitação "Filter Tower" .....	85,00
E-4-A	1000	Plaquetas em cobre .....	15,00
E-24	100	Plaquetas em aço inox .....	3,00
E-6	24	Plaquetas Pyrex .....	12,00
E-7-B	24	Anéis e discos em Alumínio ...	<u>27,00</u>

A Transportar .....			US\$ 29.265,00
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<u>Modêlo</u>	<u>Quantidade</u>	<u>Especificação</u>	US\$
		Transporte .....	29.265,00
E-17	1	Garra para manejo à distância de isótopos radioat .....	50,00
E-35	1	Idem .....	50,00
Radiation Counter Laboratories Inc. Nucleonic Park - Skokie - Ill.			
....	1	Medidor de neutrons lentos e rápidos .....	200,00
Ball Brothers Research Corp. Box 191 - Boulder - Colorado			
500	1	Fluorímetro, para análises de Urânio .....	<u>1.255,00</u>
Total .....			US\$ 30.820,00

TOTAL GERAL DA LISTA "A"

US\$ 194.773,90

/vc.



MINISTÉRIO DA EDUCAÇÃO E CULTURA

FACULDADE DE MEDICINA DA UNIVERSIDADE DA BAHIA

SALVADOR-BA

PEDIDO para o Laboratório de BIOQUÍMICA

- Material destinado ao Ensino e à Pesquisa

Lista "A"

	<u>US\$</u>
9101 - B4 - (cat. A. Thomas Co. - e preços da lista 1959). Quartz spectrophotometer, photoelectric Beckman .....	2.799,00
9102-A Absorption cell - one set of four ...	112,00
9102-B Cover Beckman 2339 - 6 - each 0.50...	3,00
9102-J5 Cell holder - 4 place - Beckman 5010.	12,00
9093-F Absorption cell, square Beckman 2097 one set of four .....	36,00
3190-G (cat. A. Thomas Co. - 1955 - e preços da Lista 1959) - International Electric, Refrigerated Centrifuge, Portable Model PR-2 .....	2.458,80
3127-D Centrifuge tube. Exax, Stopped Package of 12 - 4 packages .....	160,00
9530 (cat. Fischer - 1959 - ) Electrophoresis apparatus continuous flow-Spinco Model CP .....	1.450,00
9530 - 10 - Power supply .....	360,00
9530 - 15 - Automatic Fraction Collector...	495,00
9530 - 20 - Feeder curtains - 6 packages..	80,00
9530 - 22 - Lower curtains - 6 packages ...	102,00
9530 - 24 - Wicks - 6 packages .....	72,00
14.378 - 100 - (cat. Fischer - 1959) Flame photometer attachment Coleman Model 21 .....	495,00
14.378 - 110 - Galv-o-meter Coleman - Model 22	175,00
14.378 - 120 - Connecting cable .....	8,00
14.378 - 122 - Connecting cable .....	8,00
14.378 - 124 - Scale panel Na - K - Ca -3-...	15,00
14.378 - 126 - Booster pump .....	144,00
14.378 - 128 - Filter - Ca .....	45,00
4192 - (cat Fischer - 1959) Burner - Universal Junior Blast -2-...	72,00
A transportar	9.101,80



<u>Lista "A"</u>	<u>Bioquímica (cont.)</u>	<u>Fl. 2.</u>
	Transporte .....	US\$ 9.101,80
20288 - (cat. Fischer - 1959 -)		
Micro combustion furnace Fischer improved..		300,00
10268 - (cat. Fischer - 1959 - )		
Fluorometer Photo Coleman .....		480,00
10268 - 5	Filter PC-1                   -2- .....	26,00
10268 - 6	Filter PC-2                   -2- .....	18,00
10268 - 8	Filter PC-6                   -2- .....	20,00
10268 - 10	Filter PC-8                   -2- .....	20,00
10268 - 12	Filter PC-10                  -2- .....	16,00
10268 - 14	Filter B-1                    -2- .....	24,00
10268 - 16	Filter B-2                    -2- .....	26,00
10268 - 18	Filter B-3                    -2- .....	14,00
10268 - 20	Filter B-4                    -2- .....	20,00
10268 - 22	Filter B-1S                  -2- .....	22,00
10268 - 24	Cuvettes, round, 19 x 105 mm. 2 Do- zen .....	24,00
	US\$	<u>10.111,80</u>

Pedido do Laboratório de FARMACOLOGIA

CATALOGUE OF RESEARCH AND STUDENT'S APPARATUS

C. F. PALMER (LONDON) LTD.

10 th edition - 1959

Kymograph Unit, for use with A.C. mains complete as illustration A. 44 .....	(2)	1.433,60
Extra for 12 in high small cylinder to suit 12 in paper .....	(2)	5,60
Spare cylinder for kymograph and recording drum cylinder 12 in diameter x 12 in high with locking clamp A 58 .....	(2)	78,40
Clamp A 54 .....	(3)	33,60
Smoking stand A 251 .....	(1)	23,80
Burner for kerosene with a 3 in wick and widening-up gear A 265 .....	(2)	34,00
Time Unit B 140 .....	(1)	15,40
Pneumatic signal B 30 .....	(2)	19,60
Mercury manometer with stand C 21 .....	(4)	56,00
	A transportar .....	1.700,00



Laboratório de FARMACOLOGIAFl. 3.Lista "A"

Transporte .....	US\$	1.700,00
Condon's rat B.P. manometer C 34 .....	(2).....	29,40
Fine glass cannula C 33 .....	(4).....	2,80
Time Markers or signals ... B 16 .....	(2) .....	13,44
Adjustable tambour with horizontal adjustment slide O 6 .....	(2) .....	39,20
Frog's heart chamber C 124 .....	(2) .....	33,60
All metal frontal writing points C 172 (10)...		8,40
Heart clips frog's heart C 145 .....	(12) .....	8,40
Heart clips mamalian heart C 146 .....	(12) .....	8,40
adjustable stand D 2 .....	(1) ..	4,62
Multiple upright D 43 .....	(2) .....	23,80
Jointed arms D 45 .....	(1) .....	4,62
Rubber bellows respiration unit E 106 (2) ....		270,20
Spare rubber bellows E 107 .....	(1) .....	11,20
Apparatus for isolated uterus, intestine etc - F 45 ...	(2) .....	89,60
Varnishing tray A 280 .....	(1) .....	26,60
Very light pens C 190 .....	(10) .....	14,00
Very light pens C 191 .....	(10) .....	11,20
Perspex ink fountains C 194 .....	(5) .....	4,90
White glazed paper 5 3/4 in wide x 12 yds long specially wound for use with per roll A 309(40)		11,20
White glazed paper In cut pieces 20 in 5 3/4 A 300 per 500.....		11,20
" " " 40 " " A 301 " " .....		19,60
- .	US\$	<u>2.346,38</u>

Laboratório de FÍSICA BIOLÓGICALista "A"Catálogo A. Thomas

7260	Molecular Weight Determination .....	68,05
9568	Thermometer Beckmann .....	43,60
9569	" " .....	73,30
4919	Glass electrode pH meter .....	245,00
1923-C	Balance .....	57,00
9811-B	Viscosimeter .....	<u>196,15</u>
	US\$	683,10



Laboratório de FÍSICA BIOLÓGICA - Lista "A"

Fl. 4.

	Transporte ....	683,10
Viscosity tube 3 - 9811-B.....		10,95
9807-F- Spectroscope .....		160,00
9037 G- Han Suport .....		49,00
9036 Spectroscope Hand .....		65,00
8649 S Refractometer .....		469,10
8649 Hand refractometer .....		165,00
8610 Abbe refractometer .....		585,00
8429 Polarografic .....		420,00
8429 " pertence .....		2,50
8430 A .....		4,75
8431 .....		0,50
8419 B .....		8,50
4918 W 1 .....		3,50
8440 .....		4,40
8441 .....		8,35
8347 Polarimeter bulb (3) .....		0,48
8347 Polarimeter .....		1.575,00
Catalogo Macaloster Bicknell Co.		
7431 Chromatographic Apparatur .....		65,00
7460 " densitometer .....		185,00
7462 Guide for paper Strips .....		15,00
7463 Scanning frame .....		65,00
7465 Color filters .....		24,00
8130 Colorimeter photoelectric .....		184,00
8380 Optical filter .....		11,00
8383 " " .....		10,00
8386 " " .....		12,00
8392 " " .....		12,00
8395 " " .....		12,00
Catalog Fisher S. Co.		
7-112 Neffluoro photometer .....		440,00
7-112-80 Solutions nephelometric .....		30,50
9-529 Electrophoresis apparatur .....		1.992,00
11-315 Glass Cutter .....		16,00
11-325 " " .....		0,90
11-330 " " .....		30,00
14-648 Stopwatch .....		22,50
14-812 Surface tensiometer .....		495,00

A transportar .... US\$ 7.837,03



	Transporte .....	US\$7.837,03
Catálogo nº 6089 Picker		
	Aparelho de Raios X Picker 100 mA .....	3.195,00
33942	Interruptor .....	15,00
12589	.....	53,00
10185A	.....	111,00
	Metabolor Sauborn mod. 10 complet .....	455,00
		US\$ 11.666,03
		11.666,03

DEPARTAMENTO DE HISTOLOGIA E EMBRIO-  
LOGIA GERAL

1	Microtomo "SPENCER" 820 para parafina .....	750,00
1	Microtomo "LEITZ 1310" para congelação .....	350,00
1	Microtomo "LEITZ 1300" para celoidina .....	500,00
1	Microscópio "ZEISS" completo com câmara foto- grafica embutida .....	2.500,00
1	Lupa, estereo-microscópio "ZEISS" com câmara fo- tografica anexa (107361) .....	750,00
1	Potenciometro modelo 110 de ARTHUR H. THOMAS COMPANY .....	250,00
1	Colorimetro .....	238,00
1	Balança com sensibilidade para centesimos de miligramo .....	500,00
1	Roller-tube para cultura de tecidos .....	200,00
1	Centrifuga .....	81,00
1	Máquina fotografica LEITZ (LEITZ) .....	200,00
1	Descalcificador .....	500,00
Modelos de embriologia (p/ensino)		
1	Lavador de pipetas .....	25,00
		6.844,00
		6.844,00



6

FISICA BIOLOGIA

CATALOGO TRACERLABE - D

	US\$
SC-18 Superscaler	1 303,50
SC-40 Plug In-Ratemeter	214,50
TGC-2 Geiger-Mueller Tube	58,85
TGC-1 Geiger-Mueller Tube	47,85
TGC-8 Geiger Mu eller Tube	102,85
Esterline Angus Recorder, Portable Chart Drive (1 mil type)	341,00
Space Reel Paper for Recorder (48 charts)	63,36
Bottle of Ink for Recorder	2,75
SU-3C Laboratory Monitor with TGC-2	357,50
SU-15 Radiation Survey Meter	302,50
SU-8 Pocket Dosemeter	46,75
SU-9 Pocket Dosemeter Charger	71,50
Film Badge	1,65
Probing Counter Tube (Neurosurgical)	30,00
SC-9D Vertical Lead Shield	214,50
E-17 Remote Handling Tongs	52,80
E-18A Remote Pipetting Device	126,50
SC-16G Windowless Flow Counter	495,00
E-15A Cylindrical Lead Container	38,50
E-12B Rectangular Storage Container	181,50
1 Sonda com tubo Geiger Mueller PW-4100/11 para rádios beta e gama	55,00
1 Sonda PW 4101/11 para radios gama	24,70
1 Sonda PW-4102/11 para radios beta e gama	55,00
1 Porta amostras e suporte de sonda PW-4120	23,00
1 Tubo 18503 sobressalente	7,08
1 Tubo 18513	23,19
1 Tubo 18514	25,77



Faculdade de Medicina da Universidade da Bahia  
Gabinete de MEDICINA LEGAL

Lista A

Pedido conforme:

Catálogo A. Thomas

6,515	C	Microscope B & L .....	dol.US	294,00
6,515	H	Binocular tube .....	"	122,00
7,120	A	Microtome .....	"	28,25
7,138		Microtome Automatic .....	"	183,50
7,147		Microtome ninoratory .....	"	410,00
7,260		Molecularweight determination ....	"	68,05
9,569		Thermometer Beckmann .....	"	73,30
7,337	A	Motor eletric .....	"	94,90
4,919		Glass electrode PH meter .....	"	245,00
2,052		Balance weight .....	"	71.65
1,894	A	Balance laboratory .....	"	29,40
1,887	V	Balance .....	"	564,00
1,812		Balance .....	"	90,00
1,057	E	Vacum gauge .....	"	97,00
9,925	F	Canstant temperature Bath .....	"	68,50
9,080		Spectroscope .....	"	95,00
8,344		Polarimeter .....	"	335,00

Catálogo - Macalaster Bicknell Co

8,325		Photocolorimeter Colmann .....	"	205,00
8,380		Optical Filter .....	"	11,00
8,386		" " .....	"	12,00
8,392		" " .....	"	12,00
8,383		" " .....	"	10,00
8,395		" " .....	"	12,00

Catálogo Fisher

11 - 315		Glass cutter .....	"	16,00
14 - 386		Spectrograph .....	"	1.595,00
14 - 386-5		Spectrograph parts .....	"	90,00
14 - 386-10		" " .....	"	350,00
14 - 386-15		" " .....	"	90,00
14 - 386-20		" " .....	"	52,00
14 - 386-25		" " .....	"	150,00
14 - 386-30		" " .....	"	66,00
14 - 386-35		" " .....	"	21,00

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Lista ACat. R I C H A R D E S - 1954ARTHROMETER, GONIOMETER AND PROTRACTOR

No. 951 L - Stainless 9" .....	\$ 8.50	1
No. 951 - " 6" .....	\$ 5.00	1

PELVIC SALING

No. 305 - complet .....	\$ 24.00	1
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HYPEREXTENSION FRAME

No. 116 C - 16" x 30" .....	\$ 32.50	1
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STOCKUMETS

Roll 25 - No Roll .....	\$ 2.75 - 17.75	
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PLASTER OF PARIS KNIVES

No. 151 (Small-hook-nose) Knife ....	\$ 0.60	6
No. 152 - Handle with adjustable Blade	\$ 4.00	6

STRYKER CAST CUTTER

No. 1500 .....	\$ 89.00	
Extra Saw Blades, 21/2" , 2 .....	\$ 2.80	
Carrying Case .....	\$ 3.00	

PLASTER SPREADER STRYKER TYPE

No. 271 A - 9" .....	\$ 22.50	1
No. 271 - 18" .....	\$ 24.00	1

ROTARY AND BISHOP OSCILLATORY ELECTRIC BONE SAW

No. 433 B .....	\$270.00	1
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Mc KEEVER BENDING PLIERS

No. 188 - Pair .....	\$ 12.50	
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RICHARDS SAFETY SCREW DRIVERS

No. 197 N - For Regular Screws (top picture)	\$ 12.50	2
No. 197 NP - For Phillips Screws (top inset)	\$ 12.50	2

CANNULATED REAMERS

No. 415 S - Ser Of 3 sizes in Holder	\$ 43.50	
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SMITH - PETERSEN - Extractor-Impactor

No. 111 .....	\$ 25.00	
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NEW TYPE NEUFELD NAIL DRIVER -

No. 313 N - Stainles .....	\$ 12.50	1
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CAMPBELL-BOYD PNEUMATIC TOURNIQUET

No. 310 .....	\$ 35.00	
No. 311 .....	\$ 35.00	
No. 311 c .....	\$ 35.00	
No. 311 cc .....	\$ 35.00	

RUBBER BANDAGES

No. 396 - 2 1/2 wide x long .....	\$ 11.75	2
3" wide x 12" long .....	\$ 2.25	2
4" Excellent for pre-application of tourniquet .....	\$ 2.75	2

BARNES CLAMP - for Charnly compression  
of the Knee Joint

No. 1450 .....Per Pair .....	\$ 37.50	2
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THE NEW RICHARDS DRILL

No. 1990 .....	\$ 39.50	
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CUTTERS FOR STEINMAN PINS

No. 900 .....	\$ 15.00	
No. 900 H .....	\$ 37.50	

STAINLESS SUTURE WIRE

No. 254 A to 256 E .....\$4.50 ..	\$ 3.00	
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PLIERS AND CUTTERS

No. 211 - 8 1/2" .....	\$ 8.50	
No. 210 - 6" .....	\$ 7.50	

BONE CLAMP

No. 350 N .....	\$ 49.50	
No. 351 N .....	\$ 49.50	

BONE CLAMP

No. 350 P .....	\$ 49.50	
No. 350 .....	\$ 49.50	

POWER GRIP PLIERS

No. 3505 .....	\$ 15.00	1
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BISHOP CLAMP

No. 500 .....	\$ 69.50	
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KEY PERIOSTEAL ELEVATORS

No. 209 .....	\$ 48.00	
No. 209 D .....	\$ 10.00	



BENNETT RETRACTOR AND ELEVATOR

No. 315 .....	\$ 15.00	
No. 315 S .....	\$ 15.00	

HUNDLEY CARTILAGE KNEFE

No. 365 - Blade and Handle .....	\$ 12.00	
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KNEE RETRACTOR

No. 361 S .....	\$ 7.50	
No. 361 SM .....	\$ 7.50	

LANIGAN CARTILAGE KNIFE

No. 476 .....	\$ 12.00	
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CARTILAGE SCISSOR

No. 4170 .....	\$ 12.00	
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MARTIN CARTILAGE CLAMP

No. 417 .....	\$ 12.00	
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CURVED KNEFE

No. 474 .....	\$ 12.00	2
Scalpel No. 4740 .....	\$ 7.50	2
Hone No. 4740 H .....	\$ 2.00	2
Breck Cartilage Knife No. 341 ..	\$ 12.00	2
No. 342 .....	\$ 12.00	2
Nail Set No. 419 .....	\$ 5.00	1

Newman Cartilage Set

No. 161 .....	\$ 14.00	
No. 162 (right) .....	\$ 14.00	
No. 163(Left) .....	\$ 14.00	
No. 164 (Right) .....	\$ 12.00	
No. 165 (Left) .....	\$ 12.00	
No. 166 .....	\$ 7.50	
No. 167 (Right) .....	\$ 7.50	
No. 168 (Left) .....	\$ 7.50	

STAPLING EQUIPMENT

No. 423 H .....	\$ 15.00	
No. 423 .....	\$ 9.50	
No. 424 .....	\$ 9.50	
No. 425 L .....	\$ 6.00	
No. 425 S .....	\$ 6.00	



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Lista A

<u>NEVE HOOK</u>			
No. 333 .....	\$	6.00	
<u>NEVE RETRACTOR</u>			
No. 334 .....	\$	7.50	
<u>METACARPAL RETRACTOR</u>			
No. 336 .....	\$	6.00	
<u>NERVE ROOT RETRACTOR</u>			
No. 274 .....	\$	17.50	
NO. 274 A .....	\$	9.00	
No. 274 B .....	\$	9.00	
<u>BONE HOOKS</u>			
No. 298 - Set of 4 .....	\$	39.00	
No. 298 - D 3/8" .....	\$	10.00	
<u>BONE MALLETS</u>			
No. 1961 .....	\$	8.50	2
No. 1951 .....	\$	8.50	2
<u>PUTTI BONE RASPS</u>			
No. 294 .....	\$	19.50	
No. 295 .....	\$	19.50	
<u>BOHLER OS CALCIS CLAMPS</u>			
No. 391 A .....	\$	35.00	
<u>BUNNELL TENDON STRIPPERS</u>			
No. 369 .....	\$	25.00	
<u>REAMER FOR INTRAMEDULLARY NAIL</u>			
No. 101 R .....	\$	17.50	
No. 101 RA .....	\$	17.50	
<u>DIAMOND INTRAMEDULLARY NAIL FOR TIBIA</u>			
No. 202 ....9mmx7mm, 24 e 36 cm Lengths .....	\$	7.50	
No. 203- Extrator-Driver .....	\$	17.50	
<u>DRIVER FOR KUNTSCHER NAILS</u>			
K No. 100 - One size Only .....	\$	35.00	
<u>EXTRACTOR FOR KUNTSCHER NAILS</u>			
No. K 101 - One Size-Only .....	\$	25.00	
<u>KUNTSCHER NAILS</u>			
Cloverleaf pattern for femur			
No. 306A-12mm Dia-Lengths 28 ta 52	\$	18.00	2 dz



Lista A

12 :

No.306B-11mm Dia-Length-28 <del>7</del> <sup>9</sup> a 52cm	\$ <del>16</del> <sup>18</sup> .00	2 dz
No.306C-10mm Dia- " -28ta 5 <del>2</del> <sup>2</sup> cm	\$ 18.00	2 dz
No.306D- 9mm Dia- " -28ta 52cm	\$ 18.00	2 dz
No.306E- 8mm Dia- " -28ta 52cm	\$ 18.00	2 dz

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Laboratório Central  
Hospital das Clínicas

"Modern Laboratory Appliances"

59 F - Fisher Scientific Company

9- 529	Electrophoresis apparatus, Spince Model RB	1.992.00	-1
9- 529-91	Paper strips	9.00	-3
9- 529-62	Filter paper vials	9.00	-3
9- 529-63	File folders	9.00	-2
9- 529-65	Sample stripor	11.00	-1
9- 529-69	Pipets, special 0.01 ml.	4.80	-2
9- 529-80	Chart sheets, for use with nº9-529-50 Analitrol	5.80	-2
9- 529-85	Ink, for recording pens of Analitrol	0.50	-1
9- 529-94	Blotter s, for use with nº9-529	8.75	-5
6.037	Counting chamber, bright line, with improved Neubauer double ruling	144.00	12
6.185	Blood diluting pipet, Thoma for white corpus cules	30.00	20
6.185	Blood diluting pipet, Thoma for red corpuscules	30.00	20
6.213 A	Clinical shaker, Fisher, electric 115 volts	110.00	1
6.213 B	Haemocytometer pipet platform	12.50	1
6.213 C	Kahn tube rack, rubber coated	8.00	1
6.287 P	Pipet, graduated to 20 millimeter (0.02) with rubber tubing and mouthpieces for use in haemometers	31.60	20
14-251-200	Rotator, clinical Fisher	150.00	1
14-255	Shaking machine, Kahn, four rack	127.50	1
3.465	Box, pipet, storing, round	12.75	3
6.391	Blood gas apparatus, Van Slyke, original volumetric model	114.00	2
		2.820.20	



Laboratory apparatus and supplies cat# - 41 E. Machlett Son-New-York	Laboratório Central Hospital das Clinicas US\$
A 13-540 International clinical, with 6 place conical head for 15 ml. tubes. For 115 volts.	110.00-2
A 19-230 Blood lancet-automatic spring release	9.00-6
A 19-740 Hemacytometer cover glass-rectangular, 20/21 mm.	10.00-20
A 19-970 Shear-pipette, Jberbach, holds 6 pipettes for 115 volts.	60.00-1
A 20-460 Pipette Shali, Exax blue line	16.00-20
A 21-460 Blood sedimentation and hematocrit tube Wintrobe	30.00-50
A 21-470 Pipette Wintrobe	6.00 -30
A 21-800 Slide holder -standard Jberbach	4.00-1
A 46.620 Hydrogen ion-indicator solutions Holligo, Bromothymol blue D, 100 ml.	1.00-1
A 46.630 Phenol red D. 100 ml.	1.00-1
A 45.900 Precision tube- square, for Holligo comparators	7.50 -2
	<hr/>
	T O T A L ..... 254.50

Modern laboratory appliances 59 - F Fisher scientific company	Laboratório Central Hospital das Clinicas
14-376-100 Spectrophotometer, Coleman Junior, Model 6	
52 Junior Spectrophotometer with constant voltage transformer; for operation on 105-125 volts.	560.00-1
14-376-126 Cuvette, round, 19 x 105 mm.	12.00-10
14-376-128 Adapter	10.00-1
14-376-160 Galvanometer lamps	6.00-2
14-376-162 Manual of clinical methods	20.00-1
	<hr/>
	608.00



Baltimore Biological Laboratory, Inc.  
1640 GOrsueh Avenue  
Baltimore 18, Maryland

BBL products:

Blood agar base	6	dc	1	lb.	3.50	21,00
Brain heart infusion media	3		1	lb	12.00	12,00
Nutrient agar	6		1	lb	43.75	43,75
Infusion broth	3		1	lb		
Brilliant green bile media ( agar)	2		1/4	lb	4.00	8,00
Crystal violet lactose broth	2		1/4	"	2.75	5,50
Indo agar	2		1/4	"	3.25	6,50
Lactose broth	3		1/4	"	3.00	9,00
Bismuth sulfite agar	2		1/4	"	2.90	5,80
MR - VP medium	2		1/4	"	3.00	6,00
Pheno red media	6		1/4	"	3.00	18,00
Russol double sugar agar	2		1/4	"	2.90	5,80
Saccharose manitol agar	2		1/4	"	3.45	6,90
Sorbitol iron agar	2		1/4	"	3.15	6,30
Urea agar	2		1/4	"	3.50	7,00
Urease test medium	2		1/4	"	3.80	7,60
Bile oxgall	3		1/4	"	4.00	12,00
Thioglycollate medium	3		1/4	"	5.00	15,00
Tripticase lactose	3		1/4	"	5.20	15,60
Iron agar	2		1/4	"	5.00	10,00
Tripticase soy agar	3		1/4	"	5.00	15,00
Tripticase soy broth and desoxycollate reagent	3		1/4	"	5.00	15,00
CTA medium	3		1/4	"	6.00	18,00
Erlich indol test	3		1/4	"	3.00	9,00
Anaerobic agar	2		1/4	"	2.50	5,00
Tripticase soy media	3		1/4	"	5.00	15,00
Indole nitrate medium	2		1/4	"	2.40	4,80
Magonar	3		1/4	"	3.00	9,00
Magonbroth	3		1/4	"	3.50	10,50
Loeffler medium	3		1/4	"	3.75	11,25
Serumtollutite agar	2		1/4	"	6.00	12,00
Sesoxycholate agar	2		1	"	5.80	11,60
Mac Donkoy	6		1/4	"	6.00	36,00
Urea agar base	3		1/4	"	6.50	19,50
Triple sugar iron base	6		1/4	"	2.45	14,70
S.S. agar	6		1/4	"	3.00	18,00
Simmons citrate agar	3		1/4	"	9.50	28,50
Phenol red lactose agar anda Phenol red lactose broth	3		1/4	"	3.00	9,00
Phenol red dextrose agar anda Phenol red dextrose broth	3		1/4	"	3.50	10,50
Phenol red maltose agar anda Phenol red maltose broth	3		1/4	"	3.50	10,50
Phenol red mannitol agar anda Phenol red mannitol broth	3		1/4	"	3.50	10,50
Phenol sucrose agar anda Phenol red sucrose broth	3		1/4	"	3.50	10,50
T O T A L .....						552,50



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EQUIPAMENTO PARA O SERVIÇO DE RADIOTERAPIA

1 Aparelho de TELCOBALTOTERAPIA (técnicas cinóticas inclusive)  
THERATRON- F US\$ 70.000.00

1 Laboratório de radioisótopos (diagnóstico e  
terapêutica das afecções tireoidianas, estu  
do das funções renal, cardíaca, hepática, es  
tudos hematológicos etc etc), inclusive acos  
sórios para controle de proteção. 20.000.00  
T O T A L ..... 90.000,00

O material acima solicitado deve ser planejado à base de um  
Hospital geral com 300 leitos.



EQUIPAMENTO PARA O SERVIÇO DE RADIOLOGIA

1	Ampala de anódio giratório -Completa com cupula e cabos	120.00
1	Mosa de comando para 200 Ma.-Mosa comando Gerador e Tubo (para completar a mesa Urológica)	9.000,00
1	Aparelho de 500 Ma. com todos acessórios, incluindo cinco radiografo e ampola de anódio giratório com foco apropriado para radiografias ampliadas.	20.000.00
1	Fluoroscópio com equipamento para tele-radiografia, a ser instalado na CLINICA TROPICAL	150.00
1	Angio-cardiógrafo	20.000,00

ACCESSÓRIOS DIVERSOS INCLUINDO:

1	Potter-Buchy protatil para trabalhar em mesa cirúrgica	500.00
2	Chassis com grade inclusa 30 x 40	100.00
2	Idem, Idem, Idem, " 24 x 30	100.00
6	Avontais plumbíferos	100.00
6	Luvras plumbíferas	100.00
3	Conjunto de chassis e ocrans de diferentes dimensões	420.00
	Aparelho de projeção de radiografias em tamanhos diversos, para auditório	1.000.00
1	Aparelho para enema opáco com diferentes terminais	10.00
1	Aparelho tipo "POLAROID" para revelação instantânea em sala cirúrgica	500.00



EQUIPAMENTO PARA O SERVIÇO DE ELECTROCARDIOGRAFIA

US\$

1 -	Vectocardiógrafo, do tipo "MODEL 185 VECTOR AMPLIFIER", WITH VISOSCOPE INCLUDING TRANSFORMER AND BLUE VIEWING SCREEN", fabricado pela "SAMBORN COMPANY", acompanhado de "PATIENT CABLE AND ELECTRODES E DIAMONT OSCILLOSCOPE CAMERA".	1.500.00
1 -	Electrocardiografo de um canal, inscrição directa, Viso Cardiote "Modelo 100 ", fabricado pela Samborn Company.	1.000.00
	T O T A L . . . . .	2.500,00



UNIVERSIDADE DA BAHIA  
 FACULDADE DE MEDICINA  
 HOSPITAL DAS CLINICAS  
 SERVIÇO DE ANESTESIA

ITEM	MATERIAL	QUANT	PR.UNIT.
1	The Standard Texas model anesthesia machine with Copper-Kettle Color light green. <u>Forogger</u>	1	U.S.\$ 1.075.00
2	Kinet -0- Motor anesthesia machine, model 2551 with 9 flowmeters and 8 cylinder yokes. Circle also rber N.21. Ohio Chemical	1	1.550.00
3	Jumbo Circle Filter- C F -N.3 With other cups assembly. <u>Forogger</u>	1	320.00
6	Corrugated breathing tubes, pair. <u>Forogger</u>	5	50.00
7	Bags for infant anesthesia with gas inlet nipple <u>Forogger</u>	5	20.00
9	Ambar bag L. - 2 <u>Forogger</u>	5	23.75
10	Latexseamless bag. N.16 L with gas inlet nipple	10	45.00
12	Rubber inhaler straps 140 L <u>Forogger</u>	5	18.75
13	Ether vaporizer N 40 with 10 ether bottle. <u>Forogger</u>	1	25.00
14	Airway. Sizes 5, 4, 3 and 2 N.60 <u>Forogger</u>	2 sets	20.00
15	Naso pharyngeal airway set of six	3 sets	18.00
16	Mouth to mouth insufflator 144-S/53	5	15.00
17	Baby Yankauer 77 C <u>Forogger</u>	3	27.00
19	Catheter Y 185 B	3	32.00
20	Catheter Y 185 A	3	66.00
21	Nonrebreathing pediatric mask Stephen. Child size <u>Forogger</u>	4	80.00
22	Stephen an Slator valve	2	50.00
23	Fink nonrebreathing valve, Ohio Chemical	2	60.00
24	Laryngoscope lames n.4 and 1-1	20 each	30.00
25	McIntosh laryngoscope blade N 3	2	50.00
26	Laryngoscope handle N68 S and M	2 each	26.00
27	Davel endotracheal tubes 00 to 10(size)	8 sets	88.00
28	Cuffs for endotracheal tubes. Fitting tubes 7, 8, 9 and 10	25 each	43.75
29	B.L.B. Tracheotomy mask. Ohio Chemical	5	87.50
33	Mira Oxygon analyzer-Ohio Chemical	1	147.00
34	Jet humidifier-Ohio Chemical	5	75.00
35	Hydrojette-air Shields, Inc	1	416.00
36	Jefferson Ventilator-Assistor Controller Air Shields, Inc.	1	800.00



		U. S. \$
37	Electrothermometer with four probes (rectal, esophageal, skin and muscular)	5 600.00
38	Pressure transducer Statham	2 840.00
39	Edin Anesthograph. Epaco, Inc. Worcester, Mass.	1 1.500.00
40	Twin scope C S -2B electrocardioscope with cardiophone and ECG preamplifier	1 1.000.00
41	Electrodyno combination Pacemaker and internal defibrillator	1 400.00
42	Four channel recording systems 154M with two 150-1600 ECG / General purpose preamplifier and two 150-1100 carrier preamplifier	1 4.000.00
43	89 Heart sound adapter kit	1 100.00
44	140-1013 Statham transducer adaptor	1 100.00
45	108 Pneumograph attachment	1 150.00
46	374 Pulse wave attachment	1 50.00
47	Electronic switch model 179	1 50.00

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UNIVERSIDADE DA BAHIA  
 FACULDADE DE MEDICINA  
 HOSPITAL DAS CLINICAS

ORÇAMENTO DE EQUIPAMENTO  
 PARA O CENTRO DE SAÚDE -  
 DA UNIVERSIDADE . . . . .

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AUDIO-VISUAL EQUIPMENT

	U. S. \$
1 Movie-picture projector, Filmo sound projector, 16mm, Bell and Howell.....	765.00
1 Slide projector, Slide King, Boscior, Model N 3605, with and 15 1/2 focus lenses.....	365.00
1 Tape-recorder, Tamberg, 3 speed (3 3/4, 7 1/2 and 15) Model 3 BF, with foot pedal and studio microphone.....	439.00
1 Still camera, 35 mm. Exakta Light Meter II a, F.1.9/50 mm	349.00
T O T A L .....	1.918.00

LABORATORY EQUIPMENT

1 Microscope (Binocular), A.O. Spencer, Model C 15 MLH, equipod with coated optica.....	612.00
6 Microscopes (monoculars) A.O. Spencer, Macrostar Series 1, with condenser, 10x43 x and 97 x objectives, at 313,50 ea	1.881.00
6 Microscope illuminators, Micro-lite, Bausch & Lomb, at 8,55 ea.....	51.31
1 Centrifuge, Adams, Safeguard Standard, CT-1110/D, for 110 volt AC, with Brass Centrifuge Shields.....	99.00
8 Adapt ed for Centrifuge Shield to hold Wintrobe Hematocrit tube, aluminum, at \$1.00 each.....	8.00
1 Holt Plate, Electric, thermostatic Controlled, Tomco Model 2500, 115 volts A.C.....	27.50
1 Timer, Stopwatch, 30 min., 1/5 sec. Continuous timer (Macalaster Bicknell N.40 360).....	17.75
1 Timer, Interval, Victor (Fisher -6-660).....	10.45
1 Oven, Laboratory, Labline thermo-lab (24x30x23 inches), 115 volts A.C. (Macalaster Bicknell 31601).....	280.00
1 Incubator, Thelco, Gravity Convection, 115 volt A.C. size n° 2.....	150.00
1 Blood Counter, denominator (Fisher-6-247).....	68.00
1 Desiccator, Schoibler, Plain, 250 inside diam. (Fisher -8-595).....	28.50
1 Lab-wagon, glass ware (Fisher 11-928).....	58.85
1 Pipette washer, Bookel.....	60.00
10 Counting Chamber, Hematocytometer, Bright-Line with improved Neubauer double ruling Bureau of Standards Certified, (Fisher 6-039) at 18.50 each.....	185.00
3 Dozen Blood diluting pipets, Thoma, for Red Corpuscles, - Certified.....	120.00

a transportar..... 3.657.36



	transports.....	3.657.36
		US\$
3	dozen Blood Diluting pipet, Thoma, for White Blood Cells, Certified.....	120.00
1	1 gross Petri dishes, culture, Pyrex, 100 x 10 mm...	77.76
1	Hemoglobinometer, Fisher Homophotometer (Fisher 6-257-100).....	150.00
1	Calibrating reference for the above apparatus - Fisher 6-257-105.....	2.75
3	Dozen cuvettes, Potometric Cell, for use with the 6-257-100 Fisher Homophotometer (Fisher N. 6-258 )	21.60
2	Standardizing cells, for use with N. 6-277-100 Hematophotometer.....	4.50
3	Dozen Diluting pipot, graduated, for use with no 6.257-100 Homophotometer (Fisher 6-258-5).....	110.00
10	Boxes Drabkin's reagan, Stable dry mixture (Fisher D-120).....	87.50
2	Dozen Urino, hydrometer , (Kimble 32182).....	19.88
20	one-ounce boxes Microscopes cover-glasses, non - corrosive, Corning, optical Glass, Square n° 1, 22mm (Fisher 12-524).....	37.62
1	Dozen Microslide, with 12 rings (Fisher 14-251-25)	4.50
1	Dozen Test tubes, graduated , Kimax, 10 ml capacity, Kimble. (463501).....	23.33
10	Bottles, Dropping, Polyethylene, 4 ounces, Macalaster Bicknell. 3806.....	7.00
2	Dishes, Staining, Horizontal (Fisher 8-812), with tray	10.00
10	Dishes " " without Fray, (Fisher 8-812) A.....	29.00
3	Forceps, Utility , Stainless Steel, 8 inches box (Macalaster) Bicknell 10961.....	6.00
4	Needle holder, Rosenberger and Greenman (Fisher - 13-090).....	6.00
2	inoculating loops, platinum for use with above holder 3 mm diameter (Fisher 13-102).....	12.50
1	dozen coils Chromel wire, for making inoculating - needles, gauge 26, (Fisher 13-095).....	1.80
3	boxes , Petri Dish, Sterilizing, Stainless Steel ( - Fisher 3-460).....	24.00
5	Boxes, Pipot Sterilizing, Round, (Fisher 3-465).....	21.25
1	Bottle, aspirator, Polyethylene, with spigot, (Fisher 2-963) 5 gal.....	25.20
5	Test tubes baskets, Expanded Aluminum, 10x6 inches , (Fisher 14-966).....	25.00
2	dozens pencils, Fisher non-run, (Fisher 13-380), Red.	4.40
2	" " " " " " " " "Black	4.40
24	vials Litmus test paper, blue.....	2.00
	transportar...	4.495.35



	transporte.....	4.495.55
12	Vials Litmus test paper, neutro.....	1.00
24	" " " " red.....	2.00
20	boxes, filter paper, Whatman n.2 diam.11 cm(Fisher 9.810)..	12.00
5	dozens Needle sterilizing tubes(Fisher 14.827).....	12.50
5	dozens " " " ( " 14.287).....	
1	Dozen Wire gauge, asbestos, square 5x 5, 10 mesh.....	1.90
1	Thermometer, Incubator, Thelco.....	6.60
10	Blood Lancet, Army Medical Dept-Model, Improved, Chromium-plated..(Fisher 5-957).....	22.50
1	dozen Bottles, washing, Polyethylene, 803(Fisher 3-409-10)	12.00
1	pair asbestos gloves(Fisher 11-292).....	5.00
1	dozen centrifuge tubes, Polyethylene, 15 ml. conical bottom.	8.10
	TOTAL.....	4.578.95

LABORATORY CHEMICALS AND REAGENTS

	Sodium potassium tartrate, N.F. powder-1 lb bottle.....	1.65
	Sodium hydroxide, flaker, for Nitrogen determination 5 lbs.b.....	3.40
	Cupric sulfate, fine crystal 5 H <sub>2</sub> O -6 x 1/4 lb.....	6.30
	Potassium iodide, crystal, reagent grade-1 lb bottle.....	4.95
	Sodium sulfate, anhydrous, reagent grade 1 lb. bot.....	1.35
	Sodium sulfite, anhydrous, " " 6 x 1 lb. bot....	6.00
	Barium hydroxide, anhydrous, powder 1 lb.....	3.30
	Zinc sulfate, crystal(Zn SO 4.h 20) 2 x 1 lb.....	3.10
	Sodium phosphate, dibasic, anhydrous, powder 1/4 lb.....	1.45
	Ammonium molybdate, reagent grade, 1/4 lb.....	1.80
	Sodium arsenate, secondary, dibasic, crystal, reagent 1/4 lb.....	4.55
	Sodium carbonate, crystal, certified reagent 2x1 lb.....	4.10
	Tartaric acid, powder, A.C.S. 2 x 1/4 lb.....	8.00
	Ortho -phosphoric acid 85% 1 pt.bot.....	2.25
	Dextrose, anhydrous, A.C.S. 6 1 lb.bot.....	6.60
	Benzoic acid, sublimed, A.C.S. 1/4 lb.....	1.60
	Methyl Alcohol, synthetic, purified 6 lqt. bot.....	6.90
	Sulfanilic acid, white, crystal, A.C.S. 1/4 lb. bot.....	2.55
	Sodium nitrite, crystal, A.C.S. 1 lb. bot.....	1.70
	Hydrochloric acid, reagent, 6 x 1 pt. case.....	8.70
	Bilirubin standard solution(Fisher So-B-49 4 ft.oz. ....	3.95
	Chloroform, anhydrous, certified 6x1 pt. containers.....	18.30
	Potassium permanganate, crystal, certified, 2x 1 lb.bot.	4.20
	Acetic acid. glacial, 99.7%, reagent case 6 x 1 pt.....	12.00
	a transporter.....	118.70



	transporto.....	118.70
Ferric chloride, lump, certified (Fe 013.6 H2O) 1 lb. bot...		2.00
Cholesterol, ash free, 2 x 25 g bot.....		4.50
Acetone, pure, certified 6 x 1 pt. containers.....		16.80
Digitonin, for Cholesterol determination certified 1 gr. bot		5.95
Ethyl ether (sulfuric), for anesthesia, Squibb 12x1/4 lb....		9.60
Acetic anhydride, certified, A.C.S. 6 x 4 fl. oz.....		6.60
Sodium molybdate 3 x 1/4 lb. bot.....		5.85
Bromine solution, concentrated 6x 1 amp.....		15.00
Sodium Chloride, crystal, A.C.S. 6x1 lb bot.....		6.60
Cephalin Cholesterol antigen 24x 5 ml.....		18.00
Thymol, crystal, N.F. 6x1/4 lb. bots.....		14.70
Calcium chloride, anhydrous, A.C.S. 6 x 1 lb. bots.....		11.70
Barbital (Diethyl barbitaric acid), N.F. 6 x10 oz.....		7.20
Barbital sodium, N.F. 6 x 1 Oz.....		8.10
Sulfosalicylic acid, fine crystal 2x1/4 lb. bots.....		5.80
Barium Chloride, anhydrous 2x1/4 lb bot.....		2.80
Lithium sulfate, certified 2x1/4 lb. bot.....		5.00
Fuchsin basic, certified biological stains, color index n° 677 2x 100 gr. bot.....		14.10
Methylene blue, certified biological stain, color index n° 922 2 x 100 gr. bot .....		14.40
Iodine resublimed, A.C.S. 3x 1/4 lb. bot .....		9.00
Hematoxylin, certified biological stain, color index n° 1246, 1 x 25 gr.....		7.20
Ferric ammonium sulfate, crystal, A.C.S. 6 x 1/4 lb. bot..		6.30
Mercury chloride, crystal, A.C.S. 1/4 lb.....		4.95
Canada balsam, neutral, filtered 6 x 1 fl .Oz.....		7.20
Nitric acid, reagent grade, fuming, A. C.S. 1 lb bot.....		4.15
Sodium citrate, certified, reagent 6 x 1/4 lb. bot.....		6.00
Potassium thiocyanate, reagent 2 x 1/4 lb. bot.....		3.50
Potassium ferricyanide crystal reagent grade, 2x1/4 lb. bot		3.80
Ferric chloride, purified, anhydrous 2x1/4 lb.....		2.70
Calcium oxide, power, reagent grade 1 lb. bot.....		2.75
Benzidine Dihydrochloride, certified, A.C.S. 1 x100 gr. bot		5.70
Hydrogen peroxide, 30% stabilized, reagent grade 6x1 pt..		18.60
Phenyl hydrazide hydrochloride, reagent grade 6x1 oz.....		10.50
Sodium acetate, crystal, A.C.S. 6x 1/4 lb.....		5.70
Sodium Chloride, crystal, AC reagent grade 6x1/b.....		6.60
Sodium thio sulfate, anhydrous, powder reagent, 2x1/4 lb		2.50
Zinc acetate, crystal, reagent 2x1/4 lb bot.....		2.50
	a transportar.....	403.05



	transporto.....	403.05
Sulfasalicylic, fine crystal, 1/4 lb.....		2.90
Phenolphthalein, certified, 6 x 1 oz. bot.....		5.10
Pormittit, Polin 1 lb.....		1.80
Oxalic acid anhydrous 1 lb.....		5.20
Silver nitrate, crystal, A.C.S. 3 x 1 oz.....		6.00
Ammonium thiocynate, crystal, 2 x 1/4 lb.....		3.30
Picric acid, reagent grade 1 lb.....		7.62
Potassium oxalate , neutral, crystal, A.C.S. 6x1/4 lb.....		9.00
Ammonium oxalate reagento grade 6x 1/4 lb.....		7.20
Gential violet , certified biological stain,color indez n.681 , 100 gr, bot.....		7.20
Wright stains solution 6 x 4 oz.....		9.00
" " dry powder, certified biological stain 2x10 g. .		5.80
Buffer solution(Giordano)for staining with Wright's(Fisher SO-B-122) 6 x 1 pt.....		12.00
Potassium sulfato, crystal, A.C.S. 2x 1 lb.....		3.30
Giemsa Stain, dry powder ,certified biological stain 5 gr.....		9.50
Imersion oil, low viscosity 10x 1 oz.....		5.00
Benedict quantitative solution 6 x 1 pt.....		15.60
Agar Bacto 5x 1 lb.....		43.75
Blood agar base , tryptose 5x1 lb.....		55.00
Brillant green 2 x 25 g .....		4.00
Differontiation disks, Optochim, Difco 6 vials.....		5.00
Potato Flour, 3 x 500 gr.( 3).....		12.00
Tripticase Soy Broth (BBL) 5 x 1 lb.....		26.00
Natuent agar, Difco, 5 x 1 lb.....		43.75
Triple sugar iron agar, Bacto 5 x 1 lb.....		35.00
SS agar, Bacto, 5 x 1 lb.....		42.50
Simmons citrate agar, Bacto, 2 x 1 lb.....		19.00
Phenol red lactose broth dehydrated, Difco 3x1 lb.....		18.75
" " manitol " " " 3 x 1 lb.....		20.25
" " maltose " 2 x 1 lb.....		18.50
" " dextrose " 3x 1 lb.....		18.75
Poptone 3 x 1 lb.....		14.55
Malachite green, Difco, 2 x 100 g.....		14.00
Sonsitivity test medium 5 x 1 lb.....		40.00
Streptococcal broth, Pike 5 x 1 lb.....		30.00
Blood grouping serum (Travenol) assorted as follows:		
Set anti-A and Anti B 4 x 5 cc.....		20.00



anti A,B .....	4	x	5	cc.....	10.00
" RHo (D) .....	4	x	5	cc.....	32.00
" Cd.....	1	x	5	cc.....	8.00
Anti CD7.....	1	x	5	cc.....	8.00
Anti E.....	1	x	1	cc.....	5.60
Anti C.....	1	x	2	cc.....	8.00
Kolmer Wasserman Antigen,Cardiolipin,Cappel 10x5 ml.....					12.00
VDRL Cardiolopin, 4 x 5 ml.....					18.00
Anti-Human serum, Anti-globulin (Coombo) 5x1 ml.....					12.50
Salmonello Antisera set Difco.....					39 75
Bacto sensitivity disks for antibiotics, universal set,24 agents, 72 vials, 1 ea.of 3 concentrations.....					49.50
Stroptococcal antisera set (Groups A-G).....					34.75

TOTAL.....1,237.77

GRAND TOTAL.....



EQUIPAMENTO PARA A 2ª CLÍNICA MÉDICA

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M A T E R I A L P A R A E N D O S C Ó P I A :

1	Gastrosópio operador de Bénédict, (A.C.M.I. ou Pilling) com lâmpadas extra Catalogo Harold Supply Corp. n. 4905.....	US\$	825,00
2	Gastrosópio flexível para exame, Pilling completo com lâmpadas extra.....		695,00
3	12 Rubber Tubing for pre-gastroscopy stomach drainage, various gauges.....		20
4	Welch Allyn Anoscope set, complete (Catalogo Harold n. 436).....		52,
5	"Tuttle" Sigmoidoscope 65 Fr. 10 inches, complete. (Catalogo Harold n. 436).....		30,
6	Yeomans Protoscope 1 tubo 10 x 7/8 inches, 8 inches working length, obturator, light carrier, lamp, cord inflation lens cap and inflation bulb with tubing. (n. 293).....		46,25
	Extra tube 10 x 5/4 inc. with obturator (n 294)		22,50
	Extra tube 12 x 3/4 inc. with obturator (n 294A).....		22,50
	Sigmoidoscope tube 14 x 3/4 inc. with obturator (n.296).....		22,50
7	Goldbacher Anoscope examining type, chrome plated (2) n. 9685).....		13,50
8	Buie Specimen Forceps 12/ 3/4 inc. cannula working distance (n.380.90).....		14,80
9	Yeomans rotating rectal biopsy forceps , jaws 19 Fr., closed, working length 16 inc (n. 387 e 387 S).....		46,25
10	2 Ayere's gastric biopsy brush set complete with reagents.....		10,00
11	3 Intestinal biopsy tubes.....		22,50
12	Bromsulphalein solution ampules 3 cc size, 100 boxes.....		120,00
	A transportar	US\$	<u>1.962.80</u>



CLÍNICA DE OTORRINO-LARINGOLOGIA

		Transporte	1.962.80
1	Audiometro	US\$	675,00
1	The Broyles Optical Bronchoscope		1.257,00
		Total	<u>3.894.80</u>

EQUIPAMENTO PARA A CLINICA UROLÓGICA

1	Mc Carthy Faroblique Pan-Endoscope n. 150 (pg. F-253) .....	265,00
1	Brown-Buerger Universal Cystoscope n. 101 (pg. F-252) .....	380,00
1	Mc Carthy Miniature Cystoscope n. 202 (pg. F-251) .....	260,00
1	Sten - Mc Carthy Electrotome modified by Nesbit n. 435 (pg. F-258) .....	199,00
1	Retrospective observation telescope n.429	151,75
1	Right Angle observation telescope n.403..	133,75
1	Lewis Recording Cystometer - C - 700 ....	222,00
12	Extra lamps n. 58-L pg. F-253 .....	19,80
12	Extra lamps n.51 pg. F-252 .....	18,60
12	Extra lamps n. 58-S pg. 251 .....	19,80
1	A.C.M.I. Foreign Body Forceps-flexible stem-Size 7 Fr. with handle n.232 F-7....	50,00
1	A.C.M.I. Foreign Body Forceps-flexible stem size 71 Fr with handle n.232 F-11...	52,00
1	A.C.M.I. Foreign Body Forceps rigid stem size 11 Fr. n.235 S-11 .....	55,00
1	A.C.M.I. Ronguer Forceps flexible stem size 7 Fr. with handle n.231 F-7 .....	60,00
1	A.C.M.I. Ronguer Forceps flexible stem size 11 F n. 231 S-11 .....	55,00
1	A.C.M.I. Scissor (flexible) type cystoscopic forceps size 7 - n.230 S-7 (simple cutting)	18,00
1	A.C.M.I. flexible scissor type cystoscopic forceps size 11 n.230 S-11 (simple cutting)	18,00
1	A.C.M.I. Double cutting flexible scissor type cystoscopic forceps size 7 Fr. n.230 - D S - 7 .....	18,00
1	A.C.M.I. Double cutting flexible scissor type cystoscope forceps size 11 Fr n. 230 - D-S-7 .....	18,00
1	A.C.M.I. Double cutting flexible scissor type cystoscope forceps size 11 Fr n. 230 - D-S-11 .....	18,00
1	A.C.M.I. Single cutting rigid scissor type cystoscope forceps size 7 Fr n.233 S-7	18,00
1	Bransford - Lewis Ureteral dilator n.238	48,00
1	Mc. Carthy Punctate electrode n.427 P ...	<u>6,50</u>
	a transportar .....	5.999.00



	transporte.....	US\$	5.999.00
1	6 Cxs. Paper recording charts for Cystome - ter n. C-701 .....		100,00
1	Lomly gramping forceps n. 438 .....		43,00
1	Tatum Ureteral Transilluminator A.C.M.I. n. 219 .....		250,00
1	2 High frequency connecting and fils A.C.M. I. Electrode n. 274 .....		<u>350,00</u>
			6.742.00

MATERIAL PARA A CLINICA DE DOENÇAS TROPICAIS E INFECTUOSAS

1	Rectal biopsy punch .....		46,00
1	6-257-100 Hemophotometer, Fisher .....		150,00
1	6-257-105 Calibrating reference .....		2,75
2	Veeder Counter - Hand Tally .....		10,00
48	6-258 Photometric cell .....		28,80
48	6-258-5 Diluting pipet graduated .....		156,00
1	Klett Summerson photoelectric colorimeter...		148,00
1	Blood Cell calculator - Marhel, 8 Key.....		60,00
1	6-213B Hemacytometer pipet plataform .....		12,50
1	6-213C Kala tube rack, pubber coated.....		8,00
2	6-241 Pipet cleaner, Fisher .....		<u>7,00</u>
			7.371.05

EQUIPAMENTO PARA O DEPARTAMENTO DE ANATOMIA PATOLOGICA D

1	Autopsy Table S-3216 .....		2.930,00
4	Spencer Medical and Research Laboratory Mi- croscope N.15 milh. ....		552,00
1	352 Microscope Lamp 353 ML (pg W.4 - C)....		57,00
1	A0 - Spencer Precision Retory Microtome with n.837 knife holder, ns. 942-961-955 820 M22C		630,00
100	Gross Gold Seal Micfo slides A 1450 .....		240,00
150	" " " Gover glasses A 1431 .....		180,00
100	Slide Tray Map Form A 1605 .....		1,25
50	Steel cabinete for micro slide storage (apud E. Macheltt cat. capacity of.3.000 slides ) A 60-700 .....		8,50
1	Simplified clinical microtome (apud E. Ma- chelltt cat) A 60-740 .....		91,50
6	Knife A 61-130 (/ . Machellet) A 61-130 ....		11,25
2	Dissecting knife (E. Machalatt) A 29.870 ..		6,00
6	Dissecting " ( 170 mm) A 29.890 .....		<u>1,75</u>
			12.080.30



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FACULDADE DE MEDICINA E HOSPITAL DE CLÍNICAS

LITA "A"

MATERIAL PARA A CLÍNICA DE DOENÇAS TROPICAIS E INFECTUOSAS

1) Respirator ("Iron Lung") Emerson Respirator (New, child-size model with dome).....	1	US\$	2.150,00
Aspirator attachment.....	1		50,00
Alarm.....	1		50,00
Adjustable foot boards.....	1		35,00
Book rest.....	1		10,00
Collar deoressor.....	1		15,00
Tracheotomy collar (infant).....	1		4,00
2) Biopsy bone marrow needle.....	12		6,00
3) Needle stop for gaugig depth of puncture (for above needle).....	12		1,50
4) Rectal biopsy punch.....	1		46,00
5) Recto-sigmoidoscop with prismatic illumination	1		70,00
6) Spinal fluid manometer (water type) with sterilizing tray.....	1		9,70
7) Levy counting quadruple chambers.....	3		12,00
8) Levy Fuchs-Rosenthal chambers.....	2		30,00
9) Incubator (Laboratory) Fisher Isotemp (outside: 28x19x27 inches).....	1		200,00
10) Safety Head centrifuge with safety cap attached .....	1		1.000,00
11) 400-000 Spinco Model CP continuous paper electro phoresis 1 cell complete except without power	1		2.000,00
12) <del>400-500</del> Spinco constat power supply required for modell CP cell, 115 volts, 50/60 cps. AC.1	1		1.500,00
13) Aparelho de leitura de tiras de eletroforese em papel de Photo volt.....	1		600,00
14) Papel Whatman no. 50 (em fôlhas de qualquer dimensão).....	500		500,00
15) Papel Whatman no. 1 (em tiras ou fôlhas lar- gas).....	500		500,00
16) Amido black 2 B.....	100 g		3,00
17) Orcinol "Eastman".....	25 g		5,00
			<u>8.797,20</u>



	US\$	8.797,20
18) Microscópio Zeiss com iluminação direta, transformador e acessórios para ultramicroscópio, contraste de fase e microfotografia.....	1	1.000,00
19) Oftalmoscópio "Bausch & Lomb" (último modelo) tipo May, com cabo para bateria do tipo grande...	1	65,00
20) Blood sedimentation apparatus (Improved-Westergren.....	1	30,00
21) Vim Silverman biopsy needle.....	2	5,00
22) Hot air sterilizer (Gas heated) with automatic thermostatic control valve (inside:25x14x19)...	1	30,00
23) Galactose.....	50 poun	4,00
24) Bromsulphatein solution ampules.....	100 box	36,00
25) Phenolsulfonphalein amples (monosodium salt solution).....	100 box	50,00
26) Sodium benzoate ampules (1.77 gr.) in sterile aqueous solution 20 cc size.....	240	20,00
27) Protein - C reagent ( complete kit).....	3	2,00
28) Digitonin reagent.....	50 mg	3,00
29) 6-257-100. Hemophotometer Fisher.....	1	150,00
30) 6-257-105. Calibrating reference.....	2	2,75
31) 6-258-Photometric cell.....	48	0,60
32) 6-258-5 Diluting pipet graduated.....	48	3,25
33) Veeder recorder Under Tally.....	2	5,00
34) Klett Summerson Photo-electric Colorimeter...	1	148,00
35) Accessories for Klett Summerson Colorimeter Calibrated test tubes, graduated. (per dozen)..	2 dozen	6,80
Color filter, mounted no. 66, Red.....	1	4,00
36) Anti-serum for C-Reactive protein.....	20 ml.	30,00
37) Lampadas para microscópio Zeiss de iluminação direta.....	6	9,00
38) Vacutainer Becton and Dickson.....	5.000	50,00
39) Automatic Pipette for volumes from 0,2 ml to 2 ml.....	2	60,00
40) Automatic Pipette Washer (Fisher).....	1	320,00
41) Blood Cell calculator Marbel, 8 Key.....	1	60,00
42) Visor for agglutination reading.....	1	100,00
43) 6-212 A Clinical Shaker, Fisher electric....	1	110,00
44) 6-213 B Hemacytometer platform.....	1	12,50
45) 6-213C Kalm tube rack, Rubber coated.....	1	8,00
46) 6-241 Pipette Cleaner, Fisher.....	2	3,50



HOSPITAL DAS CLINICAS

1 Freezer para a anatomia patológica ..... US\$ 835,00

MATERIAL DEPOSITADO NA HOLANDA

2 Stereoskopische Binokular-Mikroskope mit objektivschnellwechsler für Untersuchungen im auffallenden Licht. bestehend aus: Stereotubus mit Schragem Einblick, Objektivschnellwechsler mit Wechselvorrichtung für 2 Objektive und einem eingebauten Objektivpaar 1x mit Wechselvorrichtung für Stative GRASE Stativ für Untersuchungen im auffallenden Licht, mit Wechselvorrichtung zum Ansetzen des Fussunterteils für Durchlicht, Opalglasscheibe und Schwarzglasscheibe, 2 Objektklemmen GRISD Schrank mit Einlagen für Objektiv- und Okularpaare GUWAB Optische Ausrüstung: Objektivpaar 4x GRESC Okularpaar mit grossem Schfeld .G 12,5 x ein Okular des Okularpaares mit verstellbarer - Augenlinse GREJT Augenmuscheln aus Weichgummi mit Metallfassung, das Paar GOXOY ..... 942,94

2 Mikroskopierleuchten MONLA mit Niedervoltlampe 6 Volt 5 Ampere, Tageslichtfilter, Mattscheibe, Leitungsschnur und Stecker BEECH ..... 78,94

4 Ersatz-Niedervoltlampen 6 volt 5 ampere LINID ..... 14,92

2 Reguliertransformatoren 110/220 Volt Wechselstrom mit Amperemeter und Leitungsschnur - REDYX ..... 115,20

2 Schutzhauben aus Kunststoff ISCOD ..... 76,80

1 Grosses Schnell - Schneide-Mikrotom MINOT typ 1212 zur Herstellung von Schnittserien für Paraffin - und Celloidin-schnitte: mit Messerblock mit doppelter Messereinspannung, Schnittdickeneinspannungstellung von 1- 25 Micron, einstellbare Schnittdickenwerte von 1 Micron mit automatischem Objektvorschub 30 mm, mit vertikaler Schnittbewegung/Hub/ etwa 60 mm, mit stabiler Kugelgelenkklemme mit Wechselvorrichtung für Objektklemme und Paraffintischchen, mit verstellbarer Klemme mit 26mm Spannweite für verschieden starke Objekte und mit 2 Paraffintischchen/Durchmesser 25 und 30 mm/ TYKAB beweglicher Messerblock für Celloidinschnitte TEERS Bandführung zum Abnehmen von Schnittserien TEEPR Messer nach MINOT, beide Seiten Konkav, Länge der Schneide 15 cm, Rückenstärke 13 cm, in Etui TAUTO Streifen nach Zimmer, vierseitig, auf drei Seiten Leder, auf einer Seite Stein, 3,5 x 20 cm THEGE Gesamtausrüstung für Paraffin - und Celloidinschnitte TYRON ..... 797,33



1	Tischformiges Klotzchen für Präparate, die grösser sind als die Spannweite der Objektive, Format 60 x 50 mm THUKI .....	2,02
1	Mikrotommesser nach MINOT, beide Seiten konkav, Länge der Schneide 15 cm, Rückenstärke 13 mm, in Etui TAUTO .....	26,67
<u>SCHMIDT &amp; HAENSCH - BERLIN</u>		
1	Zucker-Refraktometer komp. m. Beleuchtung..	500,00
1	Aufbewahrungskasten dafür .....	23,80
1	Lippich Polarimeter, mod E - 1/4 170 kompl. mit Natriumlampe und Verschaltgerät zum Anschluss an ..	1.240,00
1	Beobachtungsröhre aus Glas, mit einseitiger Erweiterung, Länge 50, 100, 200 95, 04 und 190, 09 mm (8.73) .....	43,65
1	Polarisationsapparat nach Mitscherlich komplett mit Natriumlampe .....	314,82
1	elekt. Verschaltgerät zum Anschluss an ..	50,27
1	Beobachtungsröhre mit einseitiger Erweiterung aus Glas, Länge 95.04 und 190, 09 mm	<u>17,46</u>

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300	Microscopios para estudantes mod. American Optical Co. Microstar .....	180.000,00
6	Projetores de 16 mm Bell & Howell .....	4.500,00
20	Epidiascopios .....	1.000,00
20	Projetores de slides - Beseler - mod. 3605.	7.300,00
6	Colorímetros Clay Adams .....	1.428,00
6	Microtomos Spencer 820 .....	4.500,00
4	Fotômetros Coleman .....	2.000,00
2	Espectofotômetros Beckmann .....	6.000,00
2	Espectofotômetros Coleman Junior .....	1.120,00
3	Centrifugadores International .....	7.500,00
6	Centrifugadores Clay Adams .....	6.000,00
6	Gravadores Philips .....	1.500,00
1	Eder Palmer Transesophagoscopic Gastroscope model n. 5B .....	985,00
1	Tri-Carb Liquid Scintillation Spectrometer, model 314 AX .....	<u>14.000,00</u>



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BAKER ANALYZED REAGENTS

Ref. do Catálogo	Descrição	Quant.	Preço Unit.	Preço total
0006	Acetamide-Melting Point, 1 lb.b	3 £	3.64	10.92
9506	Acetic Acid - Dilution Test (bottles c/5£)	2 b	4.95	9.90
9522	Acetic Acid U. S.P. Glacial, c/5 lb.	1 b	4.60	4.60
0018	" Anhydride - F.W.102-092 -1 pt.b.	5 pt	2.16	10.80
9006	Acetone Specific Gravity, 1 pt. b	10 pt	.92	9.20
9008	Acetone, M.F. 1 pt b. (081b)	5 pt	.75	3.75
9013	Acetyl Chloride, Residue after Evaporation.	3 pkg	3.17	9.51
9013	Assay 1 lb.	1 lb		7.48
0449	Aluminum Purified Foil -A 1 A W 26.98	1 £	4.20	4.20
0456	" " Granular - A 1 A.W. 26.98	1 £	2.35	2.35
0446	Aluminum U.S.P. Powder	1 £	2.91	2.91
0484	" Ammonium Sulfate - Assay	2 £	1.64	3.28
0498	" Chloride Crystal, F.W. 241.447	2 £	2.41	4.82
0504	" " Anhydrous Granular F. W. 133.351	3 £	2.43	7.29
0518	Aluminum Hydroxide - Powder, Al O . nh <sub>2</sub> O. 2 3	1 £	1.53	1.53
0528	Aluminum Nitrate Crystal - F.W. 375.148	2 £	1.99	3.98
0536	Aluminum Oxide, Powder H 1 <sub>2</sub> O <sub>3</sub> FW.101.96	2 £	1.88	3.76
0537	Aluminum Oxide Powder Suitable for Chromatographic Use Al <sub>2</sub> O <sub>3</sub> FW. 101.96	2 £	3.75	7.50
0546	Aluminum Potassium Sulfate, Crystal Assay	2 £	1.97	3.94
0564	Aluminum Sulfate, Broken Lump	2 £	2.48	4.96
0572	Aluminum Sulfate, Dried Powder	1 £	2.68	2.68
0596	Ammonium Acetate, Crystal	3 £	2.09	6.27
0610	" Bicarbonate, Powder	2 £	1.23	2.46
0618	" Difluoride, Purified Flake	2 £	1.38	2.76
0642	" Carbonate, Lump 1 1/2" and Finer	3 £	1.72	5.16
0646	Ammonium Carbonate USP. Lump 1 1/2" and Finer	1 £	1.12	1.12



Ref. do Catalogo	Descrição	Quant.	Preço Unit.	Preço total
0660	Ammonium Chloride, Granular F W.53.497	5 £	1.30	6.50
0666	" " ,U S P Granular	3 £	.87	2.61
0678	" Chromate, Powder	2 £	4.61	9.22
0682	" Citrate, Dibasic Crystal Assay	3 £	3.24	9.72
0688	" Dichromate Reagent Crystal	2 £	2.57	5.14
0690	" " ,Purified Granular	2 £	1.65	3.30
0698	" Fluoride, Crystal	3 £	7.46	22.38
9720	" Hydroxide Reagent	3 £	1.63	4.89
9726	" " 28% U.S.P.	2 £	1.27	2.54
0708	" Iodide Crystal, 1/4 lb. b	2 pkg	4.32	8.64
0716	" Molybdate Reagent Crystal 1/4 lb.b	3 pkg	1.67	5.01
0730	" Nitrate Reagent Granular	3 £	1.51	4.53
0746	" Oxalate, Reagent Crystal	3 £	2.36	7.08
0762	" Persulfate, Reagent Crystal 1/4 lb.b	5 pkg	.99	4.95
0776	" Phosphate, Reagent Monobasic Crystal lb.b	3 £	2.01	6.03
0784	" Phosphate Reagent Dibasic Crystal	3 £	1.92	5.76
0792	" Sulfate, Reagent Granular	4 £	1.27	5.08
0800	" " , Purified Granular	3 £	1.04	3.12
0810	" Tartrate, Reagent Crystal	2 £	4.33	8.66
9094	Amyl Acetate, Purified	3 pt	1.53	4.59
9038	Iso-Amyl Alcohol	3 pt	2.04	6.12
9032	N-Amyl Alcohol,	3 pt	2.01	6.03
9110	Aniline Reagent	3 pt	1.55	4.65
0848	Antimony Lump, 1/4 lb.b	2 pkg	1.57	3.14
9120	" Pentachloride, 1/4 lb. bd c	3 pkg	2.45	7.35
0878	" Trichloride Crystal, 1/4 lb.b	3 pkg	2.66	7.98
0886	" Trioxide Reagent Powder	1 £	2.15	2.15
0912	Asbestos, Purified Acie Washed Long Fiber	1 lb	8.20	8.20
0918	" " " " Medium " 1 lb.	1 lb	8.18	8.18
0970	Barium Chloride Crystal, 1 lb. b	2 lb	1.28	2.56
0992	" Dioxide Powder 1 lb.b	1 lb	2.01	2.01



Ref. do Catalogo	Descrição	Quant.	Preço Unit.	Preço total
1018	Barium Nitrate, Crystal 1 lb. b	2 lb	3.22	6.44
9154	Benzene Reagent, 1 pt.b (0.9 lb)	6 pt	.88	5.28
8118	Benzidina Dihydrochloride, Reagent Crystal	2 pkg	1.85	3.70
0077	Benzoic Acid Reagent Crystal Primary Standard 1/4 lb. b	2 pkg	3.64	7.28
0076	Benzoic Acid, Reagent Crystal 1/4 lb	2 pkg	1.41	2.82
2742	Betanaphthol, N.F. Powder	2 pkg	.84	1.68
1084	Bismuth Reagent Powder	2 pkg	2.38	4.76
1092	Bismuth Nitrate, Reagent Crystal	3 pkg	2.68	8.04
1150	Bismuth Trichloride Reagent Crystal	3 pkg	3.06	9.18
0084	Boric Acid Reagent Crystal, 1 lb. b	4 b	1.28	5.12
9760	Bromine Reagent	3 pkg	3.52	10.56
1184	Cadmium, Reagent Mossy 1/4 lb	2 pkg	2.57	5.14
1208	" Chloride Reagent Crystal 1/4 lb	3 pkg	2.20	6.60
1212	" " " Anhydrous Powder 1/4 lb	3 pkg	2.60	7.80
1226	Cadmium Nitrate Reagent Crystal 1/4 lb	3 pkg	2.36	7.08
1288	Calcium Carbonate Reagent Powder	2 lb	2.97	5.94
1332	" Chloride Reagent Granular	5 lb	1.72	8.60
1336	" " , U S P. "	5 lb	1.12	5.60
1394	" Nitrate Reagent Crystal	3 lb <sup>1</sup>	1.72	5.60
1624	Chromium Potassium Sulfate Reagent Crystal	2 lb	1.94	3.88
1670	Cobalt Chloride Reagent Crystal 1/4 lb	2 pkg	1.85	3.70
1680	" Nitrate Reagent Crystal 1/4 lb	3 pkg	1.92	5.76
1688	" Oxide Reagent Powder 1/4 lb	2 pkg	2.64	5.28
1736	Copper Reagent Wire 020 "Diameter	1 lb	3.85	3.85
1786	Cupric Carbonate Reagent Powder 1/4 lb	3 pkg	1.58	4.74
1841	" Sulfate Reagent Large Crystal	1 lb	2.04	2.04
1843	" " " Fine "	3 lb	2.02	6.06
1898	Desecchlora	2 lb	3.12	6.24
1939	Diatomaceous Earth	2 lb	2.64	5.28
1982	Ferric Ammorium Oxalate, Reagent Crystal	3 lb	1.99	5.97
1988	" " Sulfate Reagent Crystal	3 lb	1.80	5.40



Ref. do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
1996	Ferric Chloride Reagent Lump	3 lb	1.87	5.61
2024	" Oxide Reagent Powder	1 lb	1.25	1.25
2064	Ferrous Chloride Reagent Crystal 1/4 lb	3 pkg	1.53	4.59
2124	Gelatin, U S P Powder	2 lb	1.51	3.02
2128	Glass Wool, Medium	3 lb	1.95	5.85
2146	Gold Chloride Reagent Crystal 15 grain b.	2 pkg	2.03	4.06
9534	Hydrochloric Acid Reagent 6 lb. b	10 b	3.06	30.60
9560	Hydrofluoric Acid Reagent	6 lb	2.82	16.92
0178	Hypophosphorous Acid, Purified 50%	2 pt	3.68	7.36
2208	Iodine, Reagent 1/4 lb	2 pkg	2.69	5.38
2210	" U S P. 1/4 lb	3 lb	1.75	5.25
2234	Iron, Reagent Wire 009" Diameter 1/4 lb	3 lb	2.64	7.92
2270	Lead Acetate, Reagent Crystal 1/4 lb	3 pkg	.81	2.43
2300	Lead Carbonate Reagent Crystal	2 lb	2.62	5.24
2308	" Chloride Reagent Powder	2 lb	3.40	6.80
2322	" Nitrate, Reagent Crystal 1/4 lb	3 pkg	1.13	3.39
2362	Lithium Carbonate, Reagent Powder 1/4 lb	3	2.09	6.27
2370	" Chloride Reagent Powder 1/4 lb	3 pkg	2.32	6.96
2384	" Nitrate Reagent Crystal 1/4 lb	3 pkg	2.08	6.24
2416	Magnesium, Purified Powder 1/4 lb	2 pkg	2.46	4.92
2432	" Carbonate Reagent Powder	2 lb	5.67	11.34
2444	" Chloride Reagent Crystal 1/4 lb	4 pkg	1.23	4.92
2468	" Nitrate Reagent Crystal 1/4 lb	4	1.11	4.44
2500	" Sulfate Reagent Crystal	3 lb	1.37	4.11
8392	Manganese Dioxide Reagent Powder 1/4 lb	3 pkg	1.53	4.59
2544	Manganous Nitrate, Reagent Solution	2 pt	2.73	5.46
2550	" Sulfate Reagent Monohydrate Powder	2 lb	2.55	5.10
2654	Mercurous Chloride Reagent Powder 1/4 lb	3 pkg	4.05	12.15
2660	" Nitrate, Reagent Crystal 1/4 lb	2	4.19	8.38
0208	Molybdenum Trioxide Reagent Powder 1/4 lb	3 pkg	1.90	5.70



Ref. do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
2716	Murexide Reagent Powder 1 gram b.	2 unit.	3.31	6.62
2768	Nickelous Chloride Reagent Crystal 1/4 lb.	3 pkg	1.53	4.59
9600	Nitric Acid Reagent 7 lb. b	6 b	3.64	21.84
9624	Nitric Acid, Reagent Fuming	6 lb	3.91	23.46
9632	Nitric Acid, Technical Fuming	6 lb	3.87	23.22
9650	Perchloric Acid, Reagent 70-72%	4 lb	3.08	12.32
9654	Perchloric Acid Reagent 60-92%	3 lb	2.92	8.76
0247	Phosphomolybdic Acid Reagent Crystal 1/4 lb	3	6.55	19.65
0264	Phosphoric Acid Reagent 7 lb.b	3	.84	2.52
0265	Phosphoric Acid N.F 7 lb. b	2 lb	5.18	10.36
9369	Phosphorus Pentachloride, Reagent Crystal 1/4 lb	3 pkg	1.72	5.16
9374	Phosphorus Pentoxide Reagent Powder 1/4 lb.	4 pkg	1.11	4.44
2891	Phosphotungstic Acid Reagent Crystal 1/4lb	2 pkg	7.83	15.66
2912	Potassium Acetate, Reagent Crystal	2 lb	1.69	3.38
2940	Potassium Bicarbonate Reagent Crystal	3 lb	1.43	4.29
2958	" Biphthalate, Reagent Crystal Primary Standard 1/4 lb	3 pkg	1.62	4.86
2960	Potassium Bisulfate, Reagent Crystal	3 lb	1.60	4.80
2982	Potassium Bitartrate Reagent Crystal	3 lb	2.96	8.88
2998	" Bromide Reagent Crystal 1/4 lb	3 pkg	.95	2.85
3012	" Carbonate Reagent Anhydrous Granular	2 lb	.146	2.92
3040	Potassium Chloride Reagent Crystal 1/4 lb	4 pkg	.90	3.60
3080	" Cyanide, Reagent Granular 1/4 lb	3 pkg	1.71	5.13
3090	" Dichromate Reagent Crystal	3 lb	1.67	5.01
3096	" " Technical Powder	3 lb	1.43	4.29
3122	" Fluoride Reagent Crystal 1/4 lb	3 pkg	1.43	4.29
3140	" Hydroxide Reagent Pellets	5 lb	1.74	8.70
3164	" Iodide Reagent Crystal 1/4 lb	3 pkg	1.85	5.55



Ref do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
3191	Potassium Nitrate Reagent Crystal for Nitrometer Calibration 1/4 lb	3 pkg	4.10	12.30
3202	Potassium Nitrite, Reagent Crystal 1/4 lb	2 pkg	1.80	3.60
3214	" " Purified Crystal 1 lb	2 lb	3.31	6.62
3224	" Meta-Periodate Reagent Crystal 1oz.b	2 pkg	2.29	4.58
3228	" Permanganate, Reagent Crystal	5 lb	1.92	9.60
3238	" Persulfate, Reagent Crystal 1/4 lb	3 pkg	1.55	4.65
3246	" Phosphate, Reagent Monobasic Crystal 1/4 lb	3 pkg	1.09	3.27
3252	Potassium Phosphate, Reagent Dibasic Powder 1/4 lb	3 pkg	1.09	3.27
2966	Potassium Pyrosulfate Reagent Lump	5 lb	2.25	11.25
3278	" Sulfate, Crystal 1/4 lb	3 pkg	.99	2.97
3316	" Tertrate Reagent Crystal	2 lb	3.56	7.12
0290	Pyrogallol, N.F. Crystal	3 lb	6.81	20.43
0324	Silicic Acid, Reagent Powder	3 lb	2.43	7.29
3405	Silica Gel, Reagent Powder Suitable for Chromatographic Use	3 lb	3.52	10.56
3426	Silver Nitrate, Reagent Crystal 1/4 lb	4 pkg	6.40	25.60
9410	Sodium Reagent Lump 1/4 lb	3 pkg	1.55	4.56
9412	" Purified Lump	1 lb	2.66	2.66
3460	" Acetate, Reagent Crystal	3 lb	1.60	4.80
3506	" Bicarbonate Reagent Powder	3 lb	.88	2.64
3624	" Chloride Reagent Crystal	3 lb	1.11	3.33
3640	" Chromate, Crystal	3 lb	2.62	7.86
3646	" Citrate, Crystal	2 lb	1.64	3.28
3656	" Cobaltinitrite Reagent Powder For Determination of Potassium 1/4 lb. b	2 pkg	3.85	7.70
3688	Sodium Fluoride Powder 1/4 lb b.	2 pkg	1.34	2.68
3722	Sodium Hydroxide Reagent Pellets 5 lb b	1 lb	1.04	1.04
3748	" Iodide Reagent Crystal 1/4 lb.b	2 pkg	2.41	4.82
3764	" Molybdate, Reagent Powder, 1/4 lb b	2 pkg	1.76	3.52
3780	" Nitrite Reagent Crystal 1 lb b	2 lb	1.51	3.02
3890	" Sulfate, Reagent Crystal 1 lb b	2 lb	1.44	2.88



Ref.do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
3930	Sodium Tertrate Reagent Crystal 1 lb.b	2 lb	3.22	6.44
3920	" Sulfate Reagent Crystal, 1 lb.b	2 lb	1.37	2.74
3938	" Thiocyanate Reagent Crystal 1/4 lb	3 pkg	1.28	3.84
3946	" Sodium Thiosulfate Reagent Crystal 1 lb.2 lb	2 lb	1.27	2.54
3964	" Tusgstate, C P. Powder 1/4 lb	2 pkg	3.48	6.96
3980	Stannous Chloride Reagent Crystal, 1/4 lb	3 pkg	1.67	5.01
4006	Starch, Soluble-Potato Powder For Iodometry 1 lb	2 lb	2.99	5.98
4050	Strontium Nitrate Reagent Crystal 1/4 lb b.	2 pkg	1.53	3.06
9680	Sulfuric Acid Reagent, Crystal 9 lb b	10 lb	3.51	35.10
4124	Therium Nitrate Reagent Crystal 1/4 lb b	2 pkg	3.75	7.50
0422	Tungstic Acid Reagent Powder 1/4 lb b	2 pkg	4.14	8.28
4192	Uranyl Acetate, Reagent Powder 1/4 lb b	2 pkg	10.88	21.76
4196	" Nitrate Reagent Crystal 1/4 lb b	2 pkg	9.52	19.04
4207	Vanadium Pentoxide Reagent Crystal 1/4 lb b.	2 pkg	2.66	5.32
4321	Zinc Chloride Reagent Broken Lump, 1/4 lb b	2 pkg	1.09	2.18
4382	Zinc Sulfate Crystal, 1 lb b	2 b	1.36	2.72

MODERN LABORATORY APPLIANCES

1-022	Acid Pump Thompson Dispenser, with Lead Tubing	1	18.05	18.50
1-022-2	" " " " " Plastic "	1	19.70	19.70
1-098	Air Pump, Vacuum, Two Stage Welch Duo - Seal 1405	1	230.00	230.00
1-102	Air Pump, High Vacuum, Mechanical and Diffusion Type, Two Stage, Welch Duo- Seal	1	275.00	275.00
1-102-5	Diffusion Pump Oil, Octoil	3	17.00	51.00
1-103	Air Pump, Vacuum or Pressure, Welch Dist-0- Pump, with Motor, Single Stage, Vented Exhaust.	2	107.00	214.00
1-104	Pump Oil	3	.75	2.25
1-212	Aluminum Foil Dispenser, Fisher With Aluminum Foil	1		



Nº do Catalogo	Descrição	Quant.	P.Unit.	Preço Total
1-237	Anemometer, Direct-Reading	1	40.00	40.00
1-450	Asbestos Cement	5	1.30	6.50
1-455	Asbestos Cord, Twine 1/16"	2	2.60	5.20
1-455	" " " 1/8"	2	2.35	4.70
1-908	Balances, Gram-atic Multi-Purpose, Mettler	3		
1-910	Balance, Gram-atic, Macro, Mettler	1	895.00	895.00
1-912	Balance, Micro Gram-atic, Improved Mettler	1	1.380.00	1.380.00
1-915	Balance, Student Analytical	3	125.00	375.00
2-150	Balance, Specific Gravity, Westphal	2	45.00	90.00
2-208	Tare Weight, Fisher-Snyder, Adjustable	1	5.50	5.50
2-214	Balance Weights, Permas Laboratory Standards, Class S	1	75.00	75.00
2-276	Balance Weights, Plastic Case Class C	20	3.25	65.00
2-301-5	Balance Weights, Sto-L-Weigh, Brass Grams, Class C. 1 cada - 50-100-500 grmas	3		18.05
2-380	Barometer, Mercurial, Fortin Principle U.S. Signal Corps Type	1	125.00	125.00
2-473	Battery Tester	1	24.95	24.95
2-622	Beaker Tongs, Safety, Fisher Improved	10	6.00	60.00
2-927	Bottle Stopper Remover	2	17.50	35.00
3-230	" Specific Gravity, Kimax with Thermometer	1	13.99	13.99
3-235	Bottles, Specific Gravity, Gay-Lussac, Un-adjusted 10 ml	2	2.75	5.50
3-235	Bottles, Specific Gravity, Gay-Lussac, Un-adjusted 25 ml	2	3.00	6.00
3-409-10	Bottles, Washing, Polyethylene, 4 oz	6	1.25	7.50
3-902P	Burner, Fisher, for LPG	10	4.50	45.00
3-917P	" Forbes-Bunsen, Fisher for LPG	12	13.25	13.50
3-962P	" Pittsburgh Universal, Fisher for LPG	10	2.50	25.00
4-170	Burner, Fisher Multi-Flame, Glass Blower's, Gas and Oxygen	1	70.00	70.00



Nº do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
4-970	Safety Centrifuge, Fisher, with Clinical Head	5	70.00	350.00
4-977	Micro Head, only	1	22.00	22.00
5-705	Chart Periodic System, Hubbard Wall Size	1	7.50	7.50
5-742	Clamp, Versatile Vinylized Jaws	12	1.53	18.36
5-756	Clamp, Holder, Regular Model	24	.54	12.96
5-847	Clamp Hosecock	24	.72	14.40
5-945	Stalagmometer Tube, Traube Blood	1	12.00	12.00
6-657	Day-Night Clock Switch	1	24.95	24.95
6-662-10	Interlarm, Interval Timer	2	4.75	9.50
7-573	Magnesium Perchlorate, Anhydrous	1	3.20	3.20
7-575	Activated Alumina, Indicating	2	1.75	3.50
7-577	Drierite, Anhydrous Calcium Sulfate	3	5.00	15.00
7-845	Cork Borers, Polished Hard Brass	3	1.20	3.60
8-592	Desiccator, Fisher, Two-Hole Support	4	2.50	10.00
8-615	Desiccators, F & S.	3	22.28	66.84
8-633	Desiccator, Plain, with Knob Top, Pyrex Brand Glass, Small Size, 1 exa com 4	4	9.70	34.92
9-035-2	Demineralizer, Cartridge Type Research Model	1	12.50	12.50
9-035-6	Wall Bracket	1	7.50	7.50
9-125	Distilling Apparatus Hulett	1	19.00	19.00
9-191-10	Boileezers, Fisher	2 bottle	1.25	2.50
9-230	Drying Tubes, Schwartz, U-shape Glass Stoppered	3	4.50	13.50
9-315	Titration Assembly, with Beckman Zeromatic pH Meter	1	368.07	368.07
9-322	Key, Single Contact	10	2.50	25.00
9-323	Switch, Leeds and Northrup, Pinch Type Double-Pole, Double-Throw	4	7.05	28.20
9-331	Calibrated Slide Wire, Student Model, Leeds and Northrup.	1	76.50	76.50
9-343	Resistance Box, 4 Dial, 9.999 Ohms, Leeds and Northrup.	2	92.50	185.00
9-356	Electrical Tape "Scotch".	4	1.50	6.00



Nº do Catálogo	Descrição	Quant.	Preço Unit.	Preço Total
9-367	Conductivity Cell, Medium Conductivity Type	1	59.50	59.50
9-521	Powerstat, Variable Transformer, 7.5 amperes.	5	24.00	120.00
9-956	Fisher Airjector (Filter Pump)	8	2.25	18.00
10-063	Flask Tongs, Safety, Fisher Improved	10	6.00	60.00
11-428	Heater, Fisher Steptemp	2	40.00	80.00
9-366	Conductivity Cell, Low Conductivity Type	1	59.50	59.50
11-472-10	Heaters, Flask, Glas-Col	250 ml		
	Hemispherical Heating Mantles	140 w	12.00	12.00
"	" " " "	500 ml <sub>1</sub> 250 w	14.50	14.50
"	" " " "	1000 ml <sub>1</sub> 380 w	17.50	17.50
"	" " " "	2000 ml <sub>1</sub> 465 w	21.00	21.00
10-062	Flask Tongs, Fisher, Stainless Steel	10	3.25	32.50
10-510	Furnaces, Muffle, Electric, Blue M "Lab Heat" Size nº 1	2	157.00	314.00
10-539-5	Heating Elements B-2	2	40.00	80.00
10-539	Furnaces, Lindberg Box Type, with Indicating Pyrometer Controller Type - B-2	2	710.00	1420.00
10-552	Furnace, Muffle, Electric, Temco	2	92.50	185.00
10-955	Gas Apparatus, Shilling, Specific Gravity	1	75.00	75.00
10-962	Gas Balloon	3	4.75	14.25
10-963	Gas Balloon	3	7.00	21.00
11-261	Gauge, Dubrovin, Vacuum Type, for Mounting on Table	1	55.00	55.00
11-286	Gauges, Manometers, Mercury, Fisher Pressure or Vacuum 60 cm	3	9.00	27.00
11-315	Glass Cutter, Glazier's Diamond	2	16.00	32.00
11-340	" " , for Tubing, Griffin Type	5	2.50	12.50
11-409	Safety Visor	5	5.00	25.00
11-426	Heater, Fisher AllTemp	4	60.00	240.00
11-499	Heaters, Electric, Lindberg Size Small	2	80.00	160.00



Nº do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
11-499	Heaters, Electric, Lindberg Size Medium	3	92.00	276.00
11-504-50	Heater, Infra-Red, Economy Fisher	3	8.75	26.25
11-504-15	Replacement Heater Lamp, Infra Red	10	1.10	11.00
11-506-9	Potentiometer, Portable, Leeds and Northrup	1	261.00	261.00
11-506-30	Standard Cell, Eppley	2	36.00	72.00
11-582	Hydrometer Set, Precision Specific Gravity	1	40.00	40.00
11-613	Hygrometer, Humidiguide	1	9.00	9.00
11-657	" Direct Reading Laboratory Standard	1	65.00	65.00
11-873	Caution Label Dispenser	1	14.95	14.95
11-984	Lamp, Ultraviolet Laboratory Model, Short Wave (2537) Angstrom Units).	2	39.50	79.00
12-000	Level, Circular	3	2.00	6.00
12-012	Magnet, Alnico, Extra Large	3	2.50	7.50
12-020	Magnets, Bar 6"	6	.60	2.60
12-052	Magnifier, Balance	2	9.00	18.00
12-053	" Thermometer, Fisher	4	2.25	9.00
12-055	" Tripod	3	1.50	4.50
12-135	Melting Point Tube, Thiele, Pyrex Brand Glass	6	1.75	10.50
12-141	" " Capillaries, Open Ends	2	.80	1.60
12-305	Microscope, Student, Bausch & Lomb, Model ST-22	1	117.00	117.00
12-821	Organic Atom Model Kit, Plastic Fisher Hirschfelder -Taylor, Snap Fastener Type	1	75.00	75.00
12-829	Molecular Weight Determination Apparatus, Beckmann, Freezing Point	2	19.00	38.00
12-900	Molecular Weight Determination Apparatus, Brown Boiling Point	2	28.00	56.00
12-948	Mortars, Coors Mullite, with Pestles nº 1	2	4.34	8.68
12-948	" " " " " nº 2	2	5.72	11.44
"	" " " " " nº 3	1	9.15	9.15
"	" " " " " nº 4	1	14.07	14.07



Nº do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
12-950	Mortars, Agate, with Pestles 65 cm	2	13.00	26.00
12-950	" " " " 95 cm	1	31.00	31.00
13-262	Oven, Vacuum, National	1	175.00	175.00
13-616	Viscometers, Ostwald-Fenske ASTM, Uncalibrated Size 25	2	8.00	16.00
"	" " " 50	2	8.00	16.00
"	" " " 100	2	8.00	16.00
13-963	Refractometer, Abbé 3 L Bausch & Lomb	1	695.00	695.00
13-983	Circulating Water Pump, Precision Constant Temperature	2	295.00	590.00
13-788	Polaroid Filter Set, Laboratory J-glass with Rims	3	7.20	21.60
13-789	Polaroid J-Film, Laboratory ex	3	1.20	3.60
13-874-33	Projector Bausch & Lomb Balomatic 300	1	84.50	84.50
13-874-37	Remote, Control Cord. 15 Foot.	1	4.95	4.95
13-874-70C	Projector Screen, Wall Mounting	1	37.75	37.75
13-874-92	Pump, Midget Circulating, Model A-1 Monel Metal	2	41.00	82.00
14-050	Rings, Support, Cast Iron with Clamps 2" 17/16	36	.65	21.06
"	" " " " " " 3" 2 3/8	36	.70	22.68
"	" " " " " " 4" 3, 5/16	36	.85	27.54
14-052	Rings, Support, Open 2"	36	2.00	72.00
"	" " " " 3"	36	2.50	90.00
14-055	" Cold Rolled Steel, Extension 2	36	.60	19.44
"	" " " " " 3	36	.70	22.70
"	" " " " " 4	36	.75	24.30
"	" " " " " 5	36	.80	25.92
"	" " " " " 6	36	.90	29.16
14-196	Rubber Tubing Stretcher, Forged Stainless Steel	36	6.00	216.00
14-197	Rubber Tubing Clamps, Brass dzs 1/4, 3/8, 1/2, 5/8, 3/4	10	1.00	10.00
14-357	Scoopula, Fisher, Stainless Steel cxa c/12	6	1.80	10.80



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Nº do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
14-295	Sieves "Mesh" Series, Brass Frame 5 Inch Diameter	1	colegão completa	64.95
14-375-10	Spoonula, Fisher pacote c/6	2	7.50	15.00
14-383-8	Spectrophotometer, Beckman Model DU, Line Operated	1	2.995.00	
14-381-12	Absorption Cell, made of Pyrex Brand Glass	4	9.00	36.00
14-383-35	Corex Cells, 10 mm Light Path with Covers, Matche Set of 4	1	112.00	112.00
14-383-75	Flame Attachment, for Beckman Model DU Spectrophotometer	1	495.00	495.00
14-383-80	Atomizer-Burner, Metal, for Acetylene-Oxygen	1	40.00	40.00
14-396	Spectroscope, Direct Vision	1	55.00	55.00
14-499	Stirring Apparatus, with Variable Speed Motor, Precision	3	49,50	148.50
14-503	Stirrer, Economy Electric	3	24.00	72.00
14-667	Support Stand, Porcelain Base, Rectangular Fisher	12	6.55	78.60
14-670	Support Stands, Apparatus, Rectangular Base - medium	12	157.5	18.90
"	Large	12	2.25	27.00
14-689	Support, Buret, Fisher Student Model	10	6.00	60.00
14-837-1	Alkacid Short Range Dispensers	1	1.50	1.50
" 2	" " " "	1	1.50	1.50
" 3	" " " "	1	1.50	1.50
" 4	" " " "	1	1.50	1.50
" 5	" " " "	1	1.50	1.50
" 6	" " " "	1	1.50	1.50
14-837-21	" " " Test Paper Rolls	4	1.60	6.40
" 22	" " " " " "	4	1.60	6.40
" 23	" " " " " "	4	1.60	6.40
" 24	" " " " " "	4	1.60	6.40
" 25	" " " " " "	4	1.60	6.40



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Nº do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
14-837-26	Alkacid Short Range Test Paper Rolls	4	1.60	6.40
14-985	Thermometers, General Laboratory Engraved Stem, Centigrade, 76 mm Immersion 10 a + 500 °C	2	4.22	8.44
14-985-5	Thermometers, General Laboratory, Engraved Stem, Centigrade, Exax, Retested, 76 mm Immersion. ex 10 a + 360 °C	2	33.05	66.10
15-192	Tongs, Crucible, Nickel, Fisher, Improved Form.	24	1.57.5	37.80
15-205	Tongs, Crucible, Stainless Steel with Platinum Shoes	4		
15-222-10	Drill, Portable Electric	1	29.95	29.95
15-222-15	Drill Kit	1	49.95	49.95
15-222-40	Drill Set, High Speed Steel	3	6.00	18.00
15-228-10	Screwdriver Set, Five-in-One	5	1.50	7.50
15-229-5	Wrenches, Allen, Set of Five	4	.85	3.40
15-341	Vapor Density Apparatus, Victor Mayer, Pyrex Brand Glass ex.c/6	1	33.37.	33.37
15-343	Vapor Density Bulb, Dumas	1 dz.		16.20
15-471	Electric Heating Mantles, Glass-Col New Style 1/4	2	15.50	31.00
15-345	Heat of Vaporization Apparatus Fisher Engel	2	25.00	50.00
15-471	Glass-Col New Style 1/2	2	17.00	34.00
"	" " " " 1	2	18.50	37.00
"	" " " " 2	2	22.00	44.00
11-471-40	Extension Ring Support 1/4	2	3.00	6.00
"	" " " " 1/2	2	3.50	7.00
"	" " " " 1	2	3.50	7.00
"	" " " " 2	2	3.50	7.00
11-472-60	Pyrometer	1	35.00	35.00
11-472-40	Extension Supports 250 ml	1	3.00	3.00
"	" " " 500 ml	1	3.50	3.50



Nº do Catalogo	Descrição	Quant.	Preço Unit.	Preço Total
11-472-40	Extension Supports 1000 ml	1	3.50	3.50
"	" " 2000 ml	1	3.50	3.50
15-040	Thermometers, Precision National Bureau of Standards Certified, Centigrade 1/10°	1	80.00	80.00
15-060	Thermometer, Beckmann Differential Scale Reading Upward	3	44.00	132.00
15-067	Thermometer, Heidenhain, Cryoscope	1	35.00	35.00
15-077	Thermometers, Weston, All-Metal Centigrade Scales. 0-150	4	7.50	30.00
11-506-2	Potentiometer, Leeds and Northrup Type K 3	1	693.00	693.00
11-506-27	Galvanometers, d-c Pointer Type A	2	36.50	73.00
"	" " " " " C	2	35.00	70.00

T O T A L G E R A L D A L I S T A "A"

US\$ 5.056.277,20



## RELAÇÃO DE MATERIAL DESTINADO A CADEIRA DE

"GEOMETRIA DESCRITIVA"ARTHUR BROWN & BRO.. INC.

2 WEST 46th STREET NEW YORK 36, N.Y.

QUANT.	REF.	ESPECIFICAÇÃO	VALOR
1 -	8030A -	SPLINES ..100footreels.....US\$	42.50
6 -	8030B -	WEIGHTS .....	31.80
1 -	7832A -	NIKOR ALL METAL SAFETY TRIMMER 12x12".....	19.95
1 -	7832B -	NIKOR ALL METAL SAFETY TRIMMER 20x20".....	39.95
3 -	7780 -	X ACTO KNIVES BLADES 10-11-16-17..	1.80
3 -	7781 -	" "Idem 10-11-16-17..	2.25
3 -	7784A -	" " Blades 18-19-22-23x- 24-25-28 .....	3.60
3 -	7784B	ACTO KNIVES Blades 18-19-22-23x- 24-25-28 .....	5.40
6 -	7789A -	X-ACTO REPLACEMENT BLADES.....	3.60
6 -	7789B	" " " .....	3.60
6 -	7789C -	" " " .....	3.60
6 -	7789D -	X-ACTO REPLACEMENT GOUGES, A to F.	9.00
3 -	7789E -	" " Routers W to Z..	3.00
6 -	7789F -	" " Saw blade # 26.....	1.80
6 -	7789G -	" " " " # 27	1.80
1 -	7790 -	X-ACTO MAT CUTTER .....	9.00
		US\$	182.65



RELAÇÃO DE MATERIAL DESTINADO A CADEIRA DE

" MODELAGEM "

ARTHUR BROWN & BRO., INC.

LISTA "A"

2 WEST 46th STREET NEW YORK 36, N.Y.

REF.	QUANT.	ESPECIFICAÇÃO	
9369B	- 5	- VENUS MODELING CLAY.....	US\$ 108.00
9371B	- 5	- PLASTICUM.....	150.00
9372A	- 5	- ITALIAN PLASTILINA.....	12.00
9315	- 10	- MODELING CLAY OUTFIT.....	27.50
9395G	- 1	- FLEX-MOLD.....1 Gallon.....	12.50
9424	- 1	- WOOD CARVING SET.....	6.70
9404A	- 1	- SCULP-METAL.....311s can.....	4.00
9404B	- 1	- " " Pust can.....	1.00
9404K	- 1	- " " Kit.....	3.50
9385	- 1	- MODELING STAND writh crating charge.	45.00
9384	- 1	- MODELING TURNTABLE.....	6.00
9390B	- 1	- PROPORTIONAL CALIPERS 24".....	10.00
9387A	- 1	- ARMATURES -Figure 6".....	1.20
9387C	- 1	- " " 8".....	1.95
9387D	- 1	- " " 12".....	2.50
9387E	- 1	- " " 15".....	3.00
9387F	- 1	- " " 18".....	4.50
9387G	- 1	- " " 24".....	5.50
9380A	- 16	- BOXWOOD MODELING TOOLS-of.3to 12A-6"	3.20
9380B	- 1	- " " " of.3to 12A-8"	5.60
9381A	- 1	- WIRE-END MODELINGS TOOLS.nº1-2-3-4- 5-6-7".....	3.90
9381B	- 1	- WIRE-END MODELINGS TOOLS.nº1-2-3-4- 5-6-10".....	5.70
9382A	- 1	- WIRE-END MODELINGS TOOLS.nº1-2-3-4- 5-6-7".....	5.10
9382B	- 1	- WIRE-END MODELINGS TOOLS.nº1-2-3-4- 5-6-10".....	7.50



REF.	QUANT.	ESPECIFICAÇÃO	VALOR
9386A	1	- MINIATURE MODELING TOOLS Nº 1-2-3-4-5-6 6"	2.40
9386B	1	- " " " 6" Nº 1A-2A-3A-4A-5A	4.80
		6A	
9386C	1	- MINIATURE MODELING TOOLS 6" Nº 1B-2B-3B-4B	6.00
		5B-6B	
7786C	1	- X-ACTO "Forty-Niner" hobby chest.....	33.00
9915Y	1	- Hi-Fire, maximum Temperature 2300°F.....	570.00



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RELAÇÃO DE MATERIAL DESTINADO À CADEIRA DE  
" DESENHO ARTÍSTICO "

ARTHUR BROWN & BRO., INC.

2 WEST 46th STREET NEW YORK 36, N.Y.

REF.	QUANT.	ESPECIFICAÇÃO	VALOR
608	- 6	- LITHOGRAPHIC POINTS nº 1-2-5-e6 (0,75)...US\$	18.00
610A	- 3	- SCRATCHBOARD MULTILINER TOOLS - Set of tools.....	45.00
7661	- 36	- SCRATCH KNIVES.....# 20.....	7.75
7660	- 1	- " " .....# 30.....	7.75
610 B	- 1	- SCRATCHBOARD MULTILINER TOOLS.....	15.00
7417	- 6	- SPRAY CAN HANDLE .....	5.34
7597	- 1	- ELECTRIC ERASER .....	12.50
7597A	- 3	- " " GROSS.....	5.10
7597B	- 3	- " " " .....	5.10
7597C	- 3	- " " " .....	5.10
7603	- 1	- AIR AIRERASER.....	16.50
7603B	- 6	- " Abrasive - volume 4 oz.....	4.80
8021A	- 1	-PERSPECTIVE LINEBADS 24".....	8.00
8021B	- 1	- " " 30".....	9.20
8021C	- 1	- " " 36".....	10.50
7571H	- 1	- RAPIDOGRAPH & RAPIDOBALL PENS nº 00.....	4.50
7571G	- 1	- " " " nº 0 .....	4.50
7571B	- 1	- " " " nº 1 .....	4.50
7571C	- 1	- " " " nº 2 .....	4.50
7571D	- 1	- " " " nº 3 .....	4.50
7571E	- 1	- RAPIDOBALL .....	5.75
7571A	- 3	- ARTISTS ' FOUNTAIN PEN.....	14.85
75178	- 1	- PARTNER PERLON TIPPED BROAD SCRIBER FOUNTAIN BRUSH PEN SET.....	15.00
7519	- 3	- PERLON BRUSH FLAT Tips - 7 sizes.....	36.75
7518A	- 12	- PARTNER INK - 6 Black - 3 Blue - 3 Green..	10.20
7518B	- 9	- " " 3 Red - 3 Yellow - 3 Brown..	11.25
7800C	- 1	- TAUBER PLASTIC BINDING KITS-4 hole Punch-Kit.....	29.90
7800D	- 1	- TAUBER PLASTIC BINDING TUBES-loose leaf 3/16.....	2.70
7800G	- 1	- TAUBER PLASTIC BINDING TUBES-loose leaf 3/8.....	4.19
7800J	- 1	- TAUBER PLASTIC BINDING TUBES-loose leaf 1/2.....	8.21
7800L	- 1	- TAUBER PLASTIC BINDING TUBES-loose leaf 3/4.....	11.33



REF.	QUANT.	ESPECIFICAÇÃO	VALOR
3163C	- 1	HAND CARVER IMPORTED MANIKINS 24".....US\$	48.00
3172	- 1	" " " " With Stand 15".	16.95
7697E	- 5	FLO MASTER FELT TIP PEN - 5 dozen .....	7.50
7697F	- 6	" " " " Adpter.....	1.50
7697H	- 1	FLO MASTER DISPLAY Card 6 pens.....	18.00
7698B	- 6	PRANSPARENT INKZ FOR FELT TIP PENS.....8 colors 4oz.....	43.20
7770A	- 1	ALUMINUM STENCIL AND ETCHING KNIFE.....	1.00
7780	- 3	X-ACTO KNIVES.....	1.80
7781	- 3	" " .....	2.25
7784A	- 3	" " .....	3.60
7784B	- 3	" " .....	5.40
7789A	- 1	X-ACTO REPLACEMENT BLADES nº 10-11-14-17- 18.....	3.00
7789B	- 1	ACTO REPLACEMENT BLADES nº 19-22-23x-24.	2.40
7789C	- 1	" " " " 25 e 28.....	1.20
7789D	- 1	X-ACTO REPLACEMENT GOUGES A to F SAW BLADES	1.25
7789E	- 1	" " ROWTERS W to Z.....	1.00
7789F	- 3	" " SAW Blade # 26".....	0,90
7790	- 1	X-ACTO MAT CUTTER.....	9.00
7789G	- 3	X-ACTO REPLACEMENT SAW BLADE # 27".....	0,90
9892	- 1	BURGESS ELECTRIC SPRAYER.....	12.95
8661	- 1	SILENT KNIGHT PORTABLE AIR COMPRESSORS....	85.50
9330	- 1	KIMBER COMPLETE ETCHING OUTFIT.....	45.00
9332A	- 1	ETCHING TOOLS needle point-Handle.....	3.15
9332B	- 1	" " extra needle point.....	1.15
9333	- 1	" " Blanced point.....	2.80
9337A	- 1	" " Scraper.....	3.75
9331	- 1	" " Etching point.....	2.25
9338	- 1	" " Dry point.....	2.25
9336A	- 1	" " Burnisher.....	3.40
9336B	- 1	" " " oval .....	3.40
9342	- 1	" " Graver.....	2.00
9116	- 1	LINO CUTTING TOOLS Nº 1 to 10 -- set.....	1.00
9113	- 1	" SETS 2 handles.....	2.00
9117	- 1	X-ACTO LINOLEUM BLOCK PRINTING KIT nº 411.	3.50
9356A	- 1	BLOCK PRINTING PRESS.....	9.50
9359	- 1	SPEEDBALL BRAYERS.....	1.50
9360	- 1	" " .....	2.50
9347B	- 1	PROFESSIONAL ETCHER 'S PRESS 16x30.....	330.00
9346	- 1	ETCHER' S PRINTING PRESS.....	195.00
7813	- 1	MANUAL EDGER.....	19.95



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RELAÇÃO DE MATERIAL DESTINADO À CADEIRA DE  
 " DESENHO ARQUITETÔNICO "  
ARTHUR BROWN & BRO., INC.  
 2 WEST 46th STREET - NEW YORK 36, N.Y.

REF.	QUANT.	ESPECIFICAÇÃO	VALOR
8021A	- 1	- PERSPECTIVE LINEADS 24".....US\$	8.00
8021B	- 1	- " " 30".....	9.20
8021C	- 1	- " " 36".....	10.50
8030A	- 6	- SPLINES NEIGHTS.....	31.80
8030B	- 1	- " 100 foot reels.....	42.50
7658D	- 1	- ESTERBROOK COUNTER DISPLAY ASSORTMENT	36.70
7690A	- 1	- ARTBROWN FREEHAND LETTERRING PENS -nº 0-00-000.....	6.00
7690B	- 1	- ARTBROWN FREEHAND LETTERRING PENS -nº 1-2-3-4-5-6-.....	10.50
7690C	- 1	- ARTBROWN FREEHAND LETTERRING PENS -nº 7-8.....	5.60
7571A	- 1	- ARTISTS' FOUNTAIN PEN.....	4.95
7571H	- 1	- RAPIDOGRAPH & RAPIDOBALL PENS Nº 00..	4.50
7571G	- 1	- " " " Nº 0...	4.50
7571B	- 1	- " " " #1...	4.50
7571C	- 1	- " " " #2...	4.50
7571D	- 1	- " " " #3...	4.50
7571E	- 1	- RAPIDBALL.....	5.75
7517	- 1	- PARTNER PERLON TIPPED SET.....	15.00
7519	- 7	- PERLON BRUSH TIPS.....	12.25
7518A	- 6	- PARTNER INK Blach Blue Green 6 each..	30.60
7518B	- 6	- " " Red - Yellow-Brown 6 each	45.00
7696D	- 1	- STANDARD ASSORTMENT - Pelican Boxed..	9.50
7696G	- 1	- MASTER SET Graphos.....	29.75
7942	- 1	- METRIC RULER.....1x6.....	15
7943	- 1	- " " 1x6.....	25
7944	- 1	- " " 1x12.....	50
7946	- 1	- PROTRACTOR RULES.....	85
7929	- 1	- MAP MEASURES.....	5.50
8018C	- 5	- ADJUSTABLE CURVE RULES.....	21.25
8086A	- 1	- PARALIEL RULING STRAIGHT EDGE 30"....	20.00
8086B	- 1	- " " " " 36"....	25.00
8086C	- 1	- " " " " 42"....	27.00
8087A	- 1	- STRAIGHT EDGE CABLE...100 feet.....	6.50
8087D	- 1	- " " " 100 feet cloth covered.....	6.25
8523	- 1	- WRICO SMALL ENGINEERS' TRIANGLE.....	0,90



8524	- 1	- WRICO LARGE ENGINEERS' TRIANGLE.....	2.40
8525	- 1	- " DESIGN TRIANGLE.....	1.90
7813	- 1	- MANUAL EDGER.....	19.95
6	- 1	- IRREGULAR CURVES.....	0.55
7	- 1	- " " .....	0.70
8	- 1	- " " .....	0.70
13	- 1	- " " .....	0.95
15	- 1	- " " .....	1.00
16	- 1	- " " .....	1.00
18	- 1	- " " .....	1.00
19	- 1	- " " .....	1.35
23	- 1	- " " .....	1.45
24	- 1	- " " .....	1.45
28	- 1	- " " .....	1.00
29	- 1	- " " .....	1.55
8039	- 1	- SET OF CURVES.....	2.50
8019E	- 1	- PARALLEL RULES 24".....	6.00
8330	- 1	- SUPERBA DRAWING INSTRUMENT SET.....	43.25
8332	- 1	- PRECISE DRAWING INSTRUMENT SET.....	23.00
8341	-20	- ECONOMY DRAWING SET (a 3.30).....	66.00
8399	- 1	- DOUBLE SPRING-DROP COMPASS.....	3.75
8357	- 1	- DETAIL PEN - BLACK HANDLE.....	1.70
8361	- 1	- CONTOUR PEN.....	1.90
8362	- 1	- DOUBLE CONTOUR PEN.....	4.15
8038	- 1	- BEAM COMPASS.....	12.00
8397	- 1	- PROPORTIONAL DIVIDERS.....	30.00
8422D	- 1	- BOARDMASTER EM 243 DRAFTING MACHINE.....	154.50
Set. 31G-1	-	- WRICO UNIVERSAL scribe complete set-31.	117.50
			<hr/>
			US\$ 953.45



## S I N A Y N E V E S &amp; C I A . L T D A .

RELAÇÃO DO MATERIAL DESTINADO À CADEIRA DE  
M. DE CONSTRUÇÃO

PROCEDÊNCIA U S A - SOLLTEST CORPORATION

QUANT.	REF.	ESPECIFICAÇÃO	VALOR
2	CT-4	Vicat apparatus (Test set).....\$ US	166,00
3	CT-3	Vicat needles.....	7,50
1	CT-9	Burmister Flow Thyeregh.....	90,00
1	CT-12	Cement bleeding apparatus.....	110,00
1	AP-178	Carbon Tetrachlorida, Gallen.....	11,00
1	CT-20	Flow table, 10 inch.....	135,00
		Flow caliper.....	42,00
1	CT-23	Flow Mold.....	20,00
1	CT-25	Plastic tamper.....	3,25
2	CT-27	Fineness of Hydraulic Cement set..	35,00
4	CT-34	Cylinder mold.....	144,00
3	CT-38	Split cylinder mod.....	75,00
1	CT-54	Capping plate.....	65,00
1	CT-54A	" " .....	18,50
1	CT-65	Pat mod.....	7,50
6	CT-67	Trowel triangular blade.....	12,00
3	LT-164	Wire brush.....	10,50
3	CT-68B	Cement mold brush.....	3,75
3	CT-90	Chapman concrete Flask.....	51,00
3	CT-92	Le chatelier flask.....	28,20
3	CT-94	Cement testing cylinder.....	13,80
3	CT-96	Graduated impurities test Bettle..	1,50
1	CT-397	Heat of Hidr. tion cement.....	450,00
1	CT-86	BMH flame attachment.....	125,00
1	CT-355	Speciment mold.....	45,00
1	CT-358	Flexure device.....	85,00
1	CT-359	Special Loading compenent.....	100,00
1	CT-345	Mortar Mixer.....	273,25
1	CT-419	Mortar penetrometer.....	75,00
1	CT-225	Slump test set.....	25,50
6	CT-33	Metal cylinder molds.....	111,00
3	CT-36	Cylinder molds.....	108,00
1	CT-53	Cylinder copper.....	95,00
1	CT-51	Horizontal copping set.....	330,00



QUANT.	REF.	ESPECIFICAÇÃO	VALOR
2	CT-75	Concret beam form.....US\$	128,00
1	CT-58	Concret air indicator.....	9,50
1	CT-170	Concret cylinder exposimeter.....	295,00
1	CT-30	Laboratory Concret mixer.....	165,00
1	CT-160	Laboratory vibrator.....	170,00
1	CT-171	Multi position strain gange.....	239,00
1	CT-178	Large strain gange.....	158,00
1	CT-207	Pocket tachemeter.....	7,50
1	CT-300	Specimen cutting machine.....	2.450,00
6	CT-303	Replacement blades.....	88,50
1	CT-85	Flexure attachment for CT-714 beam.	390,00
1	CT-722	2 inch cube set.....	40,00
1	CT-723	Bleck testing set.....	150,00
1	CT-724	20.000 poend capacity gange.....	95,00
1	CT-729	10.000 " " gange.....	95,00
1	CT-720	6 inch cube set.....	90,00
1	CT-715	Eletric Pump Atlachment.....	395,00
1	CT-735	Tension Grip for 5/8" Rod.....	80,00
1	CT-737	Tension Grip for 1" Rod.....	80,00
1	CT-200	Concret test Hammer.....	135,00
6	CT-201	Replacement Rublongstone.....	18,00
1	LT-749	Compilotions of ASIM Standards.....	3,75
1	LT-750	Mineral aggregator Standards.....	5,00
1	CL-325	Mechanical Testing screen.....	500,00
4	G- 335	Pycnometer tep and jar.....	14,00
1	G- 340	Density bescket.....	22,00
1	X- 110	Aggregate test set.....	810,00
1	V- 163	Basic motorised Unconfined apparatus	385,00
1	CL-700	Pocket Penetrometer.....	15,00
1	P- 400	Motorized seil lathe.....	285,00
1	P- 404	Hand speciment trinning.....	140,00
2	P- 50	Narrow type wire sow.....	7,50
2	P- 55	Open type wire sow.....	7,00
4	LT- 30	Tin moisture boxes dzn.....	3,40
1	DS- 12	Cohesive materials 100 sheets.....	3,00
1	DS- 13	Cohesiones materials 100 sheets....	3,00
1	C- 286	High capacity consolidation test set	1.425,00
1	L- 415	Triple Beam scals.....	23,20
1	L- 700	Analytical balance.....	121,00
1	L- 785	Moisture Determination balance.....	295,00
1	L- 800	Concret aggregate scale.....	78,00
1	WS-115	Analytical Weight set.....	3,40
1	L-140H	Cravisty even blue.....	855,00



QUANT. REF.

ESPECIFICAÇÃO

VALOR

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QUANT.	REF.	ESPECIFICAÇÃO	VALOR
1	L-3	Single wall even.....\$US	67,50
1	W-15	Higrometer.....	10,50
1	L-261	Economy Hygrotermograph.....	125,00
1	W-20	Sling psychrometer.....	11,00
1	L-241	Hot plate magnetic stirrer.....	67,50
6	G-1	Pirex Beakers.....	2,40
6	G-2	" " .....	2,40
6	G-3	" " .....	3,00
6	G-5	" " .....	3,00
3	G-9	" " .....	3,45
6	G-17	Cylinder.....	12,60
6	G-18	" .....	13,50
6	G-21	" .....	34,00
3	G-26	Volumetric Flask.....	1,35
3	G-27	" " .....	8,40
3	G-40	Unstoppesed Volumetric Flask.....	4,50
3	G-41	" " " " .....	6,00
6	G-42	" " " " .....	15,00
3	G-22	Weighing bettles.....	3,60
3	G-23	" " .....	4,20
6	G-30	Necesuring pipettes.....	4,80
6	G-32	" " .....	6,00
6	G-34	" " .....	15,60
2	G-53	Evaporating dishes.....	3,60
6	G-612	Calcium claterid bottles.....	7,50
2	LT-15	Aluminium Moisture Box.....	2,00
2	LT-20	Sample boxes dozen.....	1,60
3	G-97	Plastic dispensivg bottles.....	2,85
1	LT-120	Flexing dise coil.....	4,85
1	LT-121	" .....	6,95
1	LT-123	" .....	1,50
1	LT-125	" .....	4,35
1	LT-112	Glass Marking Pencil dozen.....	4,00
3	G-121	Plastic Funnels.....	22,50
3	G-122	" " .....	5,25
3	G-123	" " .....	8,25
3	G-171	Laboratory Thermimetr.....	7,50
1	GL-345	Siving timer.....	21,35
1	GL-331	Mechanical timer.....	10,00
1	LT-200	Wood moisture content detector....	130,00
1	LT-210	Pocket calculating machine.....	125,00
1	LT-165	Standard deadweight gange.....	165,00



QUANT.	REF.	ESPECIFICAÇÃO	VALOR
1	G-258	Lab. Jack.....\$US	37,50
2	LT-100	Vernier calipers.....	8,00
1	W-4	Engineer aneroid barometer.....	97,50
1	DC-2	Data sheets.....	3,00
1	DC-3	" " .....	3,00
1	DC-4	" " .....	4,00
1	DC-	" " .....	7,00
1	CN-634	Compaction set.....	362,00
1	CN-435	Harvard miniature compaction.....	165,00
1	CN-666	Volume measure soil density set.....	143,00
1	CN-992	Sand density cone.....	16,00
1	CN-994	Field density plate.....	16,00
2	DR-4	Soil augers.....	15,00
2	CN-990	Field density sampler.....	47,00
1	CN-1020	Tube density sampler.....	55,00
1	MC-320	Speedy moisture tester.....	160,00
2	CL-209	ASIM liquid limit set.....	110,00
1	CL-210	Harvard liquid limit set.....	55,00
1	CL-X2	Complete set.....	122,00
4	CL-251	Plastic limit set.....	28,00
2	CL-255	Shrinkage limit set.....	30,00
1	C-290	Volume change apparatus.....	95,00
6	CL-271	Hydrometer Tars.....	33,90
1	CL-279	Hydrometer and liys set.....	545,00
1	CL-272	Mechanical analysis stirrer.....	56,00
3	CL-276	Sodium Silicate solution.....	4,50
3	CL-288	Sodium Hexa metaphosphate.....	3,00
3	CL-277A	Soil Hydrometer.....	33,00
3	CL-277B	" " .....	37,50
1	CB8-3	V.S. Standard Sieve.....	10,35
1	CB8-2	" " .....	10,35
1	CB8-11/2	" " .....	10,35
1	CB8-1	" " .....	10,35
1	CB8-3/4	" " .....	10,35
1	CB8-3"2	" " .....	10,35
1	CB8-4	" " .....	9,35
1	CB8-8	" " .....	9,35
1	CB8-10	" " .....	9,35
1	CB8-16	" " .....	9,35
1	CB8-30	" " .....	9,35
1	CB8-40	" " .....	9,35
1	CB8-50	" " .....	9,35
2	CB8-100	" " .....	19,70



QUANT.	REF.	ESPECIFICAÇÃO	VALOR
2	CB8-200	V.S. Standard Sieve.....\$US	27,70
2	CL-392	Motorized sieve shaker.....	325,00
4	CL- 281	Soil martar.....	12,00
4	CL- 282	Soil pastle.....	8,00
1	CL- 331	Mechanical Timer.....	10,00
1	CL- 242	Sample spliter.....	42,00
1	LT- 711	Laboratory Manual.....	4,50
1	LT-732	The measurement of soil.....	15,50
		properties in the triaxial test...	
1	LT-734	ASIM Standards Soil.....	6,75
1	LT-404	Laboratory air compressor.....	175,00
1	LT-420	Vacum pumps.....	115,00
1	LT-424	Lotery Hand Pumps.....	87,50
1	AP-350	Versa Tester.....	1.590,00
1	AP-356	Flexure atachment adjustable.....	325,00
1	AP-357	Platen set 12".....	70,00
1	AP-358	Cement cube atachment.....	40,00
1	AP-362	Cement brigeutte atachment.....	200,00
1	AP-376	Type SA grips.....	115,00
1	AP-377	Bret test Fixture.....	105,00
1	AP-378	Type "CC" grips.....	115,00
1	AP-379	Cloth grips.....	125,00
1	AP-380	Fabric Gripping fixtures.....	295,00
1	AP-381	Fabric Grab test grips.....	198,00
1	AP-382	Fixtures for mold plastic.....	198,00
1	AP-383	Plyword and ghue bleckes grips....	199,00
1	AP-384	Shearing fixtures.....	98,00
1	AP-385	Twine grips.....	90,00
1	AP-386	Wire grips.....	115,00

QUANT.	Nº.		
1	1200	Bench Grinder.....	95,00
2	1220 H	Grinding Wheal.....	9,00
4	1221 S	" " .....	18,00
2	1222 H	" " .....	9,00
4	1222 S	" " .....	18,00
1	1400	Emery paper disc grinder.....	110,00
1	1023	Paper sheets, hundud.....	8,00
1	1410	Hand grinder.....	18,00
1	1425 AB	Emery paper polshing yoll.....	7,00
1	1540-2AB	Metallographic polishnj machine....	685,00



QUANT.	Nº	ESPECIFICAÇÃO	VALOR
1	1393 AB	Specimen engraver.....\$US	18,50
1	1393-1	Steel cutlers.....	12,00
10	1380 AB	Bahelite powder-blac.....	4,40
5	1381 AB	" " -Red.....	5,00
5	1382 AB	" " -Green.....	5,00
5	1345 AB	Desicator cabinet.....	40,00
3	1550 AB	Pol. Alumina nº 1 6 flowz.....	9,60
3	1551 AB	Pol. Alumina nº 6 flons.....	12,00
3	1552 AB	Pol. Alumina nº 3 6 flons.....	17,40
3	1575 AB	Wetleth dozen.....	4,50
3	1584 AB	Red felt dozen.....	20,00
1	2360	Panphot microscope for metalurgical examinations.....	2.427,00
1	5220	Camera model JMAA.....	498,00
2	5225	Carton Rods for JMAA.....	28,00
1	5223	Micro tessar, 32 mm.....	80,00
1	5227	Micro tessar, 72 mm.....	92,00
1	5470-2	Leica camera IIIIf.....	384,20
1	5470-3	Flash Unit.....	24,00
1	5470-4	Eveready case.....	12,30
1	5472	Leica Leightmeter.....	24,00
1	5541	Master Dryer.....	21,95
1	5870	SVE triple prerpere slide projector.	80,00
1	2102-4	Pocket microscope.....	18,50
1	2121-2	Binocular eyes loop.....	15,00
1	2744	Amas Hardness tester.....	212,00
1	2744-6	Bench Stand.....	15,00
1	2715	Pittsbergh bricol machine.....	395,00
1	2730	Bel Brinell Microscope.....	85,00

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PROCEDENCIA.....SUISSA

FABRICAÇÃO.....AMSLER

1 Máquina Amsler Universal p/madeira.....\$US5.200,00

FABRICAÇÃO.....HGGEMBERG

1 Conjunto de aparelhos de medida constituido de:  
6 extensômetros, 2 clinômetros de 6 defletômetros...\$US3.750,00



PRICE:

14

THE COMPLETE SET OF 276 ARCHITECTURAL DIAGRAMS, on stout drawing paper, 40 inches by 27 inches - US\$ 560

PROCEDÊNCIA - AUSTRIA

- 1 - Microscópio Estereoscópico binocular, modelo MAK MS, marca REICHERT, constituído dos seguintes equipamentos e acessórios:
  - Parafuso bilateral para focos de alta precisão
  - Revolver com mudança automática para 3 pares de objetiva
  - Movimentos mecânicos de pinhao e cremalheira, permitindo observação longitudinal e transversal, com escala de 6 cms. e nonio 0,1 mm
  - Mesa quadrada 12 x 11,5 mm
  - Espelho de 50 mm de diâmetro, sendo um lado plano e outro convexo.
  - 1 par de objetivas 1 x
  - 1 idem 4x
  - 1 idem 10x
  - 1 par de oculares Huygens 5 x
  - 1 idem 10 x
  - 1 par de suporte para punhos
  - 1 disco de vidro de 8 cms de diâmetro para observações
  - 1 disco de metal 8 cms. de diâmetro para observações incidentes.
  - 1 placa de difusão retangular 8m5 x 11,5 cms.
- 1 - Conjunto de adaptação para microscópio acima para microfotografia marca REICHERT

PREÇO TOTAL .....US\$ 370,00

PROCEDÊNCIA - JAPÃO

- 1 - Conjunto para experiência caloríficas, modelo nº 19, marca SHIMADZO.
- 1 - Projetor de perfis, tipo SHADOWGRAPH, marca NIPPON KOG AKU

PREÇO TOTAL .....US\$ 670,00

PROCEDÊNCIA - ALEMANHA

- 1 - Máquina LEIKA N-3

PREÇO TOTAL .....US\$ 350,00

MATERIAL DESTINADO À DEMONSTRAÇÃO E ENSINO DE ENGENHARIA, CLASSIFICAÇÃO ALFANDEGÁRIA Nº 90-26

- 1 - Gabinete para as cadeiras de Estabilidade das Construções Resistência dos Materiais e Sistemas Estruturais, de fabricação da ANSLER COMPANY - SUISSA, constituído de:

1 - Prensa "ANSLER" de 200 t, tipo 200D79, hidráulica para ensaios de compressão. US\$ 10.000,00

1 - Máquina de flexão "ANSLER", de 10 t, tipo 10B 779 para ensaios de flexão em vigas de madeira, concreto etc. US\$ 5.500,00



- 1 - Microscópio de medição "ANSLER" tipo KM - 36. US\$ 450,00
- 1 - Caixa de taragem "ANSLER" de 200 t. 880,00
- 1 - Integrador "ANSLER" tipo 627 150,00

MATERIAL DESTINADO À DEMONSTRAÇÃO E ENSINO DE ENGENHARIA, CLASSIFICAÇÃO ALFANDEGÁRIA Nº 90-26.

- 1 - Gabinete para a cadeira de Higiene da Habitação e Saneamento das Cidades, contituído pelos seguintes aparelhos:

PROCEDÊNCIA SUÍSSA

Termômetros - Grupos - 0501-0503-0505-0506-0507-0602-0603-0613-0702-0706. US\$ 520,00

Higrômetros e Psicrômetros - Grupos - 0803-0807-0900-0901-0906, da Heanni 1.800,00

GENERAL RADIO COMPANY

Cambridge 39, Mass U. S. A.

Nº de ordem	ESPECIFICAÇÕES	Quant.	P. Unit.	Total
1	Standard Air Capacitor 1401 - D - 1000 u.f.	1	53,00	53,00
2	Capacitor-505- A - 100 u. u.f.	1	7,00	7,00
3	" -505- B - 200 u. u.f.	1	6,00	6,00
4	" -505- E - 500 u. u.f.	1	5,25	5,25
5	" -505- F - 0,001 u. u.f.	1	5,25	5,25
6	" -505- G - 0,002 u. u.f.	1	5,25	5,25
7	" -505- K - 0,005 u. u.f.	1	6,50	6,50
8	" -505- L - 0,01 u.f.	1	8,50	8,50
9	" -505- M - 0,02 u.f.	1	9,00	9,00
10	" -505- R - 0,05 u.f.	1	13,50	13,50
11	" -505- T - 0,1 u.f.	1	16,50	16,50
12	" -505- U - 0,2 u.f.	1	24,00	24,00
13	" -505- X - 0,5 u.f.	1	52,50	52,50
14	Standard Capacitor Type 509-F - 0,001 u.f.	1	30,00	30,00
	" 509-G - 0,002 u.f.	1	30,00	30,00
	" 509-K - 0,005 u.f.	1	30,00	30,00
	" 509-L - 0,01 u.f.	1	30,00	30,00
	" 509-M - 0,02 u.f.	1	32,50	32,50
	" 509-R - 0,05 u.f.	1	39,00	39,00
	" 509-T - 0,1 u.f.	1	42,00	42,00
	" 509-U - 0,2 u.f.	1	50,00	50,00
	" 509-X - 0,5 u.f.	1	76,00	76,00
	" 509-Y - 1,0 u.f.	1	118,00	118,00
15	Polystyrene Decade Capacitor - Type 1419 - A	1	195,00	195,00

TOTAL..... U.S. 884,75



GENERAL RADIO COMPANY

Nº de ordem	ESPECIFICAÇÕES	Quant.	P. Unit.	Total
1	Resistor Type 500 - A	1	4,50	4,50
2	" " 500 - B	1	4,50	4,50
3	" " 500 - N	1	4,50	4,50
4	" " 500 - C	1	4,50	4,50
5	" " 500 - D	1	4,50	4,50
6	" " 500 - E	1	4,50	4,50
7	" " 500 - F	1	4,50	4,50
8	" " 500 - G	1	4,50	4,50
9	" " 500 - H	1	4,50	4,50
10	" " 500 - L	1	4,50	4,50
11	" " 500 - M	1	4,50	4,50
12	" " 500 - J	1	4,50	4,50
13	" " 500 - R	1	4,50	4,50
14	" " 500 - T	1	4,50	4,50
15	" " 500 - U	1	4,50	4,50
16	" " 500 - V	1	7,00	7,00
17	" " 500 - W	1	13,50	13,50
18	" " 500 - X	1	22,50	22,50
	Resistance Limit Bridge Type 1652-AQ1 (M) (115 and 230 volts - 60 cycles).	1	575,00	575,00
		Total U.S.\$ 685,00		

/mcf



APARELHAGEM PARA GABINETE FOTOGRÁFICO DA FACULDADE, SERVINDO ÀS CADEIRAS - ARQUITETURA ANALÍTICA - HISTÓRIA DA ARTE - ESTUDOS BRASILEIROS - ARQUITETURA NO BRASIL - E DEMAIS CADEIRAS DO CURRÍCULO.

AMPLIADORES

- US\$ 297.50 1) AUTOMEGA D-3 CATALOG nº 701 com condensadores, porta negativo, lâmpada e "color Head"
- US\$ 122.60 2) Lente CAT. Nº 1744 162 mm. f 5. 6. WOLLENSAK PRORAPTAR (com "lensmount and autofocusing track")
- US\$ 9.95 3) Porta negativos sem vidro.  
CAT. Nº5400 a) para 9 x 12 cm  
b) para 4 x 5 polegadas
- US\$ 4.10 4) capa transparente CAT. Nº 7206
- US\$ 38.70 5) corretor de distorção CAT. Nº 7493  
11 lâmpadas
- US\$ 197.50 6) AUTOMEGA B-7 CAT. Nº 251 (com condensador e color-head)
- US\$ 82.15 7) LENTE Kodak EKTAR 50 mm. f 4.5 CAT. Nº 1260 (com lens mount supplementary condenser and autofocusing track)
- US\$ 87.35 8) LENTE Kodak EKTAR 90mm. f4. 5 CAT. Nº 1262 (com lens mount and track)
- US\$ 10.65 9) Porta negativo (glassless film holder) CAT. Nº 5202  
a) 6x6 cm.  
b) 6x9 cm.  
c) 24 x 36 mm. (LEICA)
- US\$ 10.65
- US\$ 10.65
- US\$ 10.65
- US\$ 38.75 10) Corretor de distorção CAT. nº 7239

MATERIAL PARA A CADEIRA DE MECÂNICA RACIONAL-GRAFO

ESTÁTICA

Pedido à WESTON INSTRUMENTS

1 - 1 MICROAMMETERS - Model 267 - D.C. Range 100 microamperes	\$ 58,50
2 - 1 RELATIVE HUMIDITY INDICATOR, model 2201, type 1	31,50
	\$ 90,00



CADEIRA DE MECÂNICA RACIONAL - GRAFO  
ESTÁTICA

SELECTED FROM  
LABORATORY APPARATUS  
AND REAGENTS  
ARTHUR H. THOMAS COMPANY  
EDITION ~~OR~~ 1950

PEDIDO DE MATERIAL PARA IMPORTAÇÃO

Quant.	Nº Cat.	ESPECIFICAÇÕES	Preço	Total
1	6232-A	HYGROMETER ( HUMIDIGUIDE )	6,50	6,50
1	6237-A	HYGROMETER, OR SLING PSYCHRO METER	15,00	15,00
1	4793-V	GALVANOMETER, L & N TYPE R,	79,00	79,00
1	9819	VOLT-OHM-MILLIAMMETER, PORTA BLE, SIMPSON MODEL 260	38,95	38,95
				<u>139,45</u>

MATERIAL PARA A CADEIRA DE FÍSICA (ACÚSTICA)

Pedido à PHYVE

1 -	2 kits Phyve de optica	US\$ 466,66
2 -	2 kits Phyve de mecânica	US\$ 466,66
3 -	2 kits Phyve de eletricidade	US\$ 466,66

MATERIAL PARA A CADEIRA DE MECÂNICA RACIONAL-GRAFO  
ESTÁTICA

1 -	1 PROJETOR EPIDIASCOPIO LEITZ	US\$ 290,00
2 -	1 MÁQUINA DE CALCULAR FACIT	US\$ 100,00

MATERIAL PARA A CADEIRA DE MECÂNICA RACIONAL-GRAFO  
ESTÁTICA

Pedido à GENERAL RADIO COMPANY

1 -	1 STROBOTAC (631-BL)	US\$ 150,00
2 -	1 STROBULOX (648-A)	US\$ 225,00

TOTAL US\$ 375,00



WESTON INSTRUMENTS

LIGHT EQUIPMENT

Nº de ordem		Quant.	P. Unit.	TOTAL
1	Model 614 - Foot-Candle Meter - 0-100/250/500 - foot-candles	1		103,00
2	Model 703 Lightmeters 0-100 foot - candles	1		48,50
	Model 9959 Leathes Carrying Cese			3,00
3	Model 703 Screen Illumination Meter 0-3 0 foot-candles	1		46,50
4	Model 756 Illumination Meter 0-6/12/60/120/600 foot candles, including leather carrying cese	1		363,00
5	Model 756 Sunlight Illumination Meter M del 756 - 0-120/1.200/ 12.000 foot candles including lea- ther - carrying cese			304,50

WESTAR PANEL INSTRUMENTS

1	Model 301 - D.C. Milliammeters Range	2	17,50	35,00
	1	50		
		Total.....		35,00

GENERAL RADIO COMPANY

Cambridge 39, Mass. U. S. A.

Nº de ordem		Quant.	P. Unit.	Total
1	Power Supplies			
1	Unit Regulated Power Supply Type 1201-A - 60 cycles	1	80,00	80,00
2	Unit Variable Power Supply Type 1204 - B	1	95,00	95,00
3	Power Supply - Type 1261 - A	1	128,00	128,00
		Total	Us\$	303,00



GENERAL RADIO COMPANY  
Cambridge 39, Mass, U.S.A.

Nº de ordem	ESPECIFICAÇÕES	Quant.	P. Unit.	Total
1	Light Meter - Type 1501 - A	1	205,00	205,00
Total..... Us\$				205,00

Procedência: Heath Company  
Benton Harbor 15-Mich-USA

QUANT.	Especificação	Mod.	Total
1	Tube Checker Kit	TC-3	39,95
1	Laboratory R F Generator Kit	LG-1	48,95
1	Direct Reading Capacity meter kit	CM-1	29,50
1	Impedance Bridge Kit	1B-2A	59,50
1	Decade condenser Kit	DC-1	16,50
1	Decade Resistance Kit	DR-1	19,50
1	Professional Stereo Monaural AM-FM tuner Kit	PI-1	89,95
1	Heavy Duty 70 watts Hif Amplifier Kit	W-6	109,95
1	Stereo Monaural Preamplifier Kit	SP-2	56,95
1	25 watts Hifi Amplifier Kit (US\$ 59,75)	W-5	59,75
5	Complete tool set (US\$ 0,95)	TK-1	49,75

MATERIAL PARA O GABINETE DE MECÂNICA RACIONAL-GRAFO  
ESTÁTICA

Pedido à GENERAL RADIO COMPANY

90 west street, New York 6, NY-USA

1	Sound Level meter	Mod. 1551 A	370,00
			370,00
Total US\$			370,00



MATERIAL PARA O GABINETE DE MECÂNICA RACIONAL-GRAFOESTÁTICAREK - O - KUT Company USA

1	Stereo monaural tone arm "16"	Mod. S160	30,95
1	Rondine de Luxe turntable	B12H	129,95
	Total	US\$	<u>160,90</u>

MATERIAL PARA O GABINETE DE MECÂNICA RACIONAL-GRAFOESTÁTICAGENERAL ELECTRIC CO.

1	Series VR 11 Cartridge	Mod. 4 G-052	19,95
1	Stereo Cartridge	CC - 5	<u>26,95</u>
	TOTAL	US\$	<u>46,90</u>

MATERIAL PARA O GABINETE DE MECÂNICA RACIONAL-GRAFOESTÁTICA

1	Starlight "120" Stereo tape deck	Mod. 120	<u>179,95</u>
	TOTAL	US\$	<u>179,95</u>

LAFAYETTE RADIO

165-08 Liberty Ave., Jamaica 33 N.Y.

2	Model 308 University 8" Triaxial Speaker	US\$ 36,75	<del>36,75</del> 72,90
1	Model 315 University 15" Triaxial Speaker		129,36
1	Model C 15 W University 15" Woofer		73,50
1	Model HF 206 University High Frequency Tweeter		26,40
1	Model UXT-5 University " " "		20,58
2	Model N2A University Crossover Network	US\$ 17,64	35,28
2	" N2B " " "	US\$ 13,72	27,44
1	Garrard Model 301 Professional Turntable		87,22
1	Viscous Damped Transcription Tonearm PK 90 With Fairchild Mod 225 Cartridge		<u>47,50</u>
	A TRANSPORTAR.....		<u>520,18</u>



1	Thor Hiower 3/8 Speed drill Mod 1325		30,95
1	Wen Mod 505 power Saw		22,01
10	PKG Wen 50 A 35 Coarse Blades 0,70		7,00
10	PKG Wen 50 A 36 Med Blades 0,70		7,00
10	PKG Wen 50 A 37 Fine Blades 1,26		12,60
1	Wen Saw Table 5 T 1		9,52
1	Pet Portable Spray Outfit Hd-134		14,91
1	1/4 Drill HD 108		13,39
10	Hispeed Cope Saw Drill Bit Hd74	US\$ 1,59	15,90
2	Arco Hole Saw Hd 224	US\$ 3,75	7,50
2	De luxe Hole Saw Hd 225	US\$ 3,75	10,50
1	Sandal Hd 158		7,50
1	Screw Drill Countersink Kit		2,32
1	Thor 15 T Speed Sander		17,47
2	Thor 3509 Cambswool Polishing Pad	US\$ ,85	1,70
2	S 108 Assortments Sand paper	US\$ ,85	4,25
10	Twist Drill Sets Hd 113	US\$ 1,59	15,90
2	Mod 3400 Solder Gun	US\$ 8,77	17,54
1	Mod S500 Heave Duty Gun		9,75
5	Nº 7135 Replacement tip	0,25	1,25
5	Nº 7250 " "	0,35	1,75
2	Nº 6130 Cutting Tip	0,34	0,68
2	Nº 6140 Smoothing Tip	0,34	0,68
2	Weller 8100 K Soldering Kit	US\$ 5,83	11,66
2	Mod 507 Soldering Kit Ungar	US\$ 4,49	8,98
1	5 Lb Kester Rosin Corg 3/32		5,15
1	5 Lb " " " 1/16		5,30
2	Top Drill and Die Set Hd 28	US\$ 4,26	8,52
1	Flexible pickep tool Hd 230		0,94
1	Combination Square HD 92		0,98
1	All purpose Hack Sow Hd 63		0,29
10	HD 64 extra Blodes	US\$ 0,15	1,30
2	Spinete Socket wrench set HD 81	US\$ 0,75	1,50
5	Lenk NOPUST HD 94	US\$ 1,00	5,00
2	Hex Key wrench set HD 242	US\$ 1,49	2,98
2	Kraeuter Type 4501-5 5" Diagonal Cuter	US\$ 2,21	4,42
2	" " 4501-6 6" " " "	US\$ 2,50	5,00
2	" " 5601 5" Needle Point diagonal		5,34
2	" " 1661 6" long nose side cutter		5,00
2	" " 1631 5 1/2" Curved long nose		5,00
2	" " 18,30 6 1/2" Side Cutter		4,58
2	" " 710 10" Joint Plieis		4,78
2	" " 1663 6" End cutter		5,16



## TRANSPORTE

2	Kraeuter Type 2612 6 1/2" Wire Striper diag.	5,66
2	" " 4610 7" Heavy Duty Diag.	5,00
1	Greenlee Chass is punchets type 730 5/8"	2,16
1	" " " " " 730 3/4"	2,16
1	" " " " " 730 7/8"	2,16
1	" " " " " 730 1"	2,34
1	" " " " " 730 1. 1/8"	2,47
1	" " " " " 730 1.1/4"	2,47
1	" " " " " 730 1.1/2"	3,19
1	" " " " " 730 2.1/4"	6,11
1	" " " " " 732 15/32"	4,14
1	" " " " " 731 5/8"	3,53
1	" " " " " 731 3/4"	3,87
1	" " " " " 731 1"	4,50
1	VACO K7 Servia Kit	7,06
1	21 pe socket set HD 161	4,49
1	Eletric Handi Sprayer HD 73	6,25
1	18" Bending and forming Brake Hd. 232	15,95
1	4 tools in 1 HD 233	10,39
1	Extra punch HD 234	1,45
1	" " HD 235	0,95
1	" " HD 236	0,95
1	" " HD 237	0,95
1	10 Pc Rotchet Socket Set Hd 119	1,99
1	7 pc jewelers Serewdriver set	1,49
1	Needle files HD 88	1,95
1	Automatic punch HD 171	1,98
1	Eletric Control template F 155	1,75
1	Eletrical Drafting template F 156	1,80
1	Wiring template F 154	1,75
1	Eletronic Drafting template F 151	2,10
1	Techrical Drafting set F 65	5,95
2	Victoreen radiation courter 1385	10,90



S I N A Y N E V E S & C I A. L T D A.

GABINETE DE TOPOGRAFIA DA ESCOLA DE ARQUITETURA

PROCEDÊNCIA.....INGLATERRA  
FABRICANTE.....HILGER & WATTS

- 1 Gabinete topográfico constituído de:
- 1 Taqueômetro Watts
- 1 Taqueômetro prismático B50 Watts
- 1 Aneróide Watts para 2.000 mts.
- 1 Bússola prismática Watts
- 1 Clinômetros Watts
- 1 Planímetro Albert
- 1 Nível automático Cowley
- 2 Stenoscopia Watts

TOTAL.....US\$ 1.650,00

PROCEDÊNCIA.....SUISSA  
FABRICANTE.....Wild

- 1 Gabinete Topográfico Constituído de:
- 1 Taqueômetro Wild T-1
- 1 Bússola circular
- 1 Nível Wild N-2
- 1 Taqueômetro Wild auto-redutos
- 1 Telemetro Wild portátil
- 1 " " TM-10
- 1 Planímetro Polar OOT de compensação
- 1 " " OOT de disco
- 1 " " OOT sobre solos
- 1 Pantógrafo OOT de precisão
- 1 Chapa coordenatógrafo

TOTAL.....US\$ 4.120,00

PROCEDÊNCIA.....ALEMANHA  
FABRICANTE.....ZEISS

- 1 Conjunto para Gabinete Topográfico constituído de:
- 1 Coordenafógrafo AOOT ref. 430
- 1 Coordenatógrafo Polar
- 1 Estereótopo Zeiss completo
- 1 " de desenho c/estôjo

.....US\$ 1.370,00

TOTAL .....US\$ 7,140,00



SUBSÍDIOS AUDIOVISUAIS NECESSÁRIOS PARA AS CADEIRAS DE HISTÓRIA DA ARTE = ESTÉTICA - ARQ. ANALÍTICA - HIGIENE - MATERIAIS DE CONSTRUÇÃO E APARELHOS DESTINADOS ÀS CADEIRAS REFERIDAS E ÀS DE ARQUITETURA NO BRASIL E COMP. DECORATIVA - URBANISMO.

Segundo o catálogo: " SUSSIDEI AUDIOVISIVI - 1959-60 de " LA SCUOLA " DE BRESCIA" - Via L. Cadorna, 9 - B R E S C I (Itália)

A 1 - A PINTURA ETRUSCA.....	1,60
A 2 - A PINTURA ROMANA.....	1,60
A 3 - O MENINO NA ARTE ( 2 partes ).....	2,40
A 4 - CRISTO NA ARTE.....	1,60
A 5 - A MADONA NA ARTE (duas partes).....	2,08
A 6 - OS MOSAICOS DE RAVENNA.....	1,28
A 7 - OS MOSAICOS DE S. MARCOS DE VENEZA.....	1,28
A 8 - A PINTURA ITALIANA DO SEC. XIII.....	1,60
A 9 - A PINTURA ITALIANA DO SEC. XIV.....	1,92
A 10 - OS SENENSE E A PINTURA GÓTICA NA ITÁLIA.....	1,92
A 11 - GIOTTO E GIOTTESCOS.....	1,60
A 12 - A PINTURA ITALIANA NO SEC. XV.....	1,92
A 13 - A PINTURA TOSCANA NO SEC. XV (primeira parte)....	1,60
A 14 - PIERO DELLA FRANCESCA.....	1,28
A 15 - PINTURA TOSCANA DO SEC. XV (segunda parte).....	1,60
A 16 - A PINTURA TOSCANA DO SEC. XV (terceira parte)....	1,92
A 17 - A PINTURA DO SEC. XV NA UMBRIA E NAS MARCAS.....	1,60
A 18 - A PINTURA VENETA DO SEC; XV.....	1,92
A 19 - GIOVANNI BELLINI.....	1,28
A 20 - CARPACCIO.....	1,28
A 21 - A PINTURA DO SEC. XV PADOVANA, EMILIANA E LOMBAR- DA.....	1,60
A 22 - A PINTURA ITALIANA DO SEC. XVI.....	1,92
A 23 - LEONARDO E LEONARDESCOS.....	1,60
A 24 - RAFAEL.....	1,92
A 25 - MIGUEL ANGELO E MIGUELANGIOLESCOS.....	1,92
A 26 - A PINTURA VENETA DO SEC. XVI ( primeira parte)...	1,60
A 27 - GIORGIONE.....	1,28
A 28 - TIZIANO.....	1,60
A 29 - A PINTURA VENETA DO SEC. XVI (segunda parte)....	1,60
A 30 - A PINTURA DO SEC. XVI EM BRESCIA, BERGAMO e FERRA RA.....	1,60
A 31 - CORREGGIO E CORREGGESCOS.....	0,96
A 32 - A GALERIA DOS UFFIZI.....	1,28



A 33 - A GALERIA PITTI.....	1,28
A 34 - A GALERIA PITTI.....	1,28
A 35 - VELASQUES.....	1,60
A 36 - A PINTURA ITALIANA DO SEC. XVII.....	1,60
A 37 - CARAVAGGIO.....	1,60
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A 65 - A PINTURA DA GRÉCIA ANTIGA.....	0,48
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A 69 - ARQUITETURA DO RENASCIMENTO (Sec. XVI).....	0,80
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A 72 - A ESCULTURA DO SEC. XV.....	0,96
A 73 - A ESCULTURA DO SEC. XVI.....	0,80
A 74 - A ESCULTURA DO BARROCO ATÉ OS NOSSOS DIAS.....	
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ST/a29-	AS REPÚBLICAS MARINHEIRAS.	2,88
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ST/a31-	AS SENHORIAS E OS PRINCIPADOS.	1,76
ST/a34-	AS MORADAS DO HOMEM ATRAVÉS DOS SÉCULOS.	1,12
ST/a35-	OS MEIOS DE TRANSPORTE TERRESTRES DA ANTIQUIDADE.	0,96
ST/a36-	OS MEIOS DE TRANSPORTES NÁUTICOS DA ANTIQUIDADE	1,12
ST/a37-	OS MEIOS DE TRANSPORTES ANTIGOS.	1,92
ST/a38-	OS MEIOS DE TRANSPORTES MODERNOS.	2,24
(Cad.Hig.G/d) 20-	O O TRENINO E O ALTO ADIGE.	2,08
G/D 21-	Venezia Giulia.	1,92
G/d 22-	O VENETO.	2,88
G/d 24-	O LAGO DE GARDA.	1,92
G/d 25-	O PIEMONTE E O VALE DE AOSTA.	2,88
G/D 26-	EMILIA E ROMANHA.	2,88
G/d 27-	OS ALPES.	1,28
G/d 39-	A VIDA NO DESERTO.	1,12
G/D 43-	O HIMALAIA.	1,12
G/d 42-	O TIBET.	1,12
G/d 28-	AS DOLOMITES.	1,92
G/d 29-	OS APENINOS.	1,12
G/d -	VISTAS DA SUIÇA.	2,40
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G/d 25-	A ALEMANHA.	1,28
G/d 36-	A NORUEGA.	1,28
G/d 37-	A BÉLGICA.	1,28
G/d 38-	VISTAS DE ESPANHA.	1,92
G/d 46	O BRASIL.	1,12
G/d 4-	AS ZONAS TERRESTRES - AS RAÇA HUMINAS E A ATMOSFERA.	2,56
G/d 3	MERIDIANOS E PARALELOS.	2,56
G/d 7	O CLIMA.	1,92
G/d 13	O GIRO DA ÁGUA.	2,56



G/d- 14-	AS PRECIPITAÇÕES.....	2,08
G/d 1-	A TERRA EM GERAL.....	2,88
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SC/d 12 -	CORPOS.....	1,44
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SC/d 21 -	AS ROCHAS.....	1,28
SC/d 43 -	OS RAIOS X.....	1,12
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v/d 3 -	A INDÚSTRIA.....	1,44
v/d 4 -	O ARTESANATO.....	1,60
v/d 6 -	AS FERROVIAS.....	1,12
v/d 19 -	AS PONTES.....	0,96
(Hig) v/d 20 -	A LIMPEZA URBANA.....	1,28
v/d 23 -	COMO NASCE UM MAPA.....	0,96
v/d 5 -	AS ADMINISTRAÇÕES PÚBLICAS E PROFISSÕES LIBE - RAIS.....	1,92
v/d 12 -	A ARTE TÊXTIL NA ANTIGUIDADE.....	1,12
P.R.	I BATTISTERI.....	0,64
P.R.	I SIMBOLI CRISTIANI.....	0,32
P.R.	OS EVANGELISTAS.....	0,32
P.R.	ROMA ANTIGA.....	0,64
P.R.	VITA E OBRA DE LEONARDO DA VINCI 109 quadros..	0,64
P.R.	VITA MEDIOEVAL.....	1,44
P.R.	ROMA (119 fig.).....	0,96
P.R.	LA CITTA DEL VATICANO.....	1,28
P.R.	LA FRANCIA.....	1,60
P.R.	LA GRAN BRETAGNA.....	1,68
P.R.	LA SPAGNA.....	1,60
P.R.	GALILEI.....	0,64
PORTUGAL.....		0,96
EGITO.....		0,64
INDIA.....		0,96
CHINA.....		1,28



	72,01
NO REINO DO MÁRMORE.....	
VIDA DOS ANTIGOS EM POMPÉIA.....	128,01
A ANTIGA POMPÉIA.....	135,21
ERCOLANO.....	58,40
VIDAS DOS HOMENS PRÉ-HISTÓRICOS.....	756,00

PROJETOR: "MICRO ASTER" (projeta até 12m. de distância, com quadro luminoso de 3 metros de lado filminhos de 18x 24 mm e diapositivos de 5x5cm.) fornecido de objetivo anastigmático de 42mm. lâmpada de 100 W, cristal antitermico, - cachilho passa-películas automatico fio elétrico e custodia impermeavel tipo pele..... 35,20

Mat.Const.)

2(dois) "LUX-FILMINI" Pequeno aparelho para verificação e o estudo dos filminhos (permite a simultânea e luminosa visão de 4 imagens de cada vez)... 3,20

PROJETOR EPI-DIASCÓPICO "EPI-SPLENDOR-SUPER" Mod. 1960 (novo silencioso sistema breveteado de resfriamento a tripla ventilação) Potência da lâmpada 1000 W - Formato: cm 75x 28 x 52 - PESO kg 27 (aproximadamente)- Sistema de lentes azuladas a fim de permitir o maximo aproveitamento da luz, seja no centro, como nas margens do quadro projetado. É dotado de Voltmetro para a exata indicação de tensão da linha, e de muda tensões para os ventiladores inseridos no aparelho - O quadro elétrico, além do Voltmetro, compreende um comutador para a acensão gradual da lâmpada - Com tal aparelho podem ser projetados, até 10 metros de distancia e com um quadro de cerca de 3 metros de lado: Cartões postais ilustrados, estampas (gravuras) fotografias, ilustrações de livros e corpos opacos em geral (na medida maxima de cm. 16x16) em sua cor natural; diapositivos em vidro de cm. 8,5x10; filminhos no formato "Standard" 18 x 24 mm e "Leica" de 24x36 mm. assim como diapositivos de 5 x 5 cm. com aplicação do respectivo dispositivo especial, fornecido de objetivo de alta ampliação; preparados microscópios para aplicação de dispositivo especial para micro-projetores.

PREÇO do aparelho.....	296,04
1º Dispositivo (para diapositivos em vidro (cm. 8,5 x 10).....	32,04
2º Dispositivo (para filminhos de 18x24 mm. e 24x36 mm e para chapas de 5x5 cm. com objetivo de 42mm.....	32,04
3º Dispositivo-para preparados microscópicos e para micro-projeções.....	44,80



1	tela ultra-luminosa para projeções em ambientes pouco obscuros (Schermo para projeção "LAMPO" em tela ATA - LANTA "EXTRA" PERLINATA, com base de apoio, desenrolamento e enrolamento instantâneos-com custódia de papelão formato: cm (150 x 200).....	96,00
10	(dez) lâmpadas de 100 W (125 - V) para projetor "Epiplendor-super" Lit (10x6500).....	104,01
	PROJETORES "LUMEN" (Completos de objetivo de 42 mm) lâmpada de 100 W - 30 V (por isso luminosíssima) cristal anti-térmico, caçilho passa-películas automático transformador para todas as tensões, fil com tomada de corrente e elegante maleta.....	57,61
10	(dez) lâmpadas de 100 W (30 V LUMEN).....	22,40
1	gravador "RECORD" montado em elegante maleta, com acabamentos de luxo: Completo dos acessórios: microfone - pequeno cabo de regisração e para alto - falante - pequeno cabo de alimentação - um carretel - com fita de m. 180 e um vazio.....	92,81
4	(quatro) carretéis com fita "Kodavox" de m. 360 (extra-subtil)... Lit (4 x 3.800,00).....	24,32
5	"Termistore" (5 x 1000,-).....	8,00

TOTAL.....

TOTAL GERAL.....

WESTON INSTRUMENTS  
LIGHT EQUIPMENT

	Quant.	Total
Model 9950 Light Target Viscoy filter	1	42,00
Model 759 Foot-Lambert Meter		212,00

## WESTON

## Switchboard Instruments

Model 610 - 2 Element Varmeter

Amps	Scale K. Vars	Scale Div.		
5	1	50	1	180,00
5	2	40	1	189,00
5	4	40	1	196,00
5	6	30	1	199,50

## MATERIAL PARA A CADEIRA DE HIGIENE DA HABITAÇÃO E SANEAMENTO

- 2 MICROSCÓPIOS ZEISS (1.100,00)..... 2.200,00



MATERIAL PARA CADEIRA DE HIGIENE DA HABITACÃO E SANEAMENTO

Bausch e Lomb

Catalog  
Number

DESCRIPTION

33-83-05-10 Model 10, 1.5 meter Stigmatic Grating Spectrograph only, with Certified-Precision concave grating providing dispersion of 16/Amm in 1st order; plate coverage of 2250-6250 in 1st order; and resolving power of 32,000 (actual) in 1st order; fixed slit holder; fixed slit slide with three slits (10 l, 20 u, and 50 widths); fishtail slide with seven a mm atep apertures; shutter; one film holder for "10" lenght of 35 mm film; and with 36" ength of accessory bed..

PRICE \$ 1.495,00

GABINETE DE HIGIENE DA HABITACÃO E SANEAMENTO DAS CIDADES

SELECTED FROM  
LABORATORY APPARATUS AND  
REAGENTS  
ARTHUR H. THOMAS COMPANY

PEDIDO DE MATERIAL PARA IMPORTAÇÃO

Quant.	Nº Cat.	Especificações	Total
1	6232-A	HYGROMETER (HUMIDIGUIDE)	6,50
	3614-G	Thermometers, A.H.T.Co SPECIFICATION ENCLOSED GLASS SCALE	
1		Tolerance 0.1º C; Lenght: 365 mm	13,00
1		Range + 23 to 27º C	13,00
1		" + 29º to 33º C	13,00
1		" + 36 to 40º C	13,00
			<hr/> 58,50

GABINETE DE HIGIENE DA HABITACÃO E SANEAMENTO DAS CIDADES

LEEDS NORTHRUP

Quant.	Nº Cat.	ESPECIFICAÇÕES	TOTAL
1	9144-A	LIGHT FILTERS, KODAC, WRATTEN, SET OF SEVEN.....	21,70
1	9314-E	STOPCLOCK, ELETRIC, THOMPSON STOP TIMER.....	35,00
2	9316-B	STOPWATCH, JAQUET, CERTIFIELD.....	59,30
1	9567	THERMOTETER, BECKMAN, WITH AUXILIARY SCALE AND MERCURY TRAP.....	73,30



Quant.	Nº Cat.	ESPECIFICAÇÕES	TOTAL
2	9655-K	THERMOREGULATOR, ELETRIC.....	35,20
			224,50

MATERIAL PARA O GABINETE DE HIGIENE DA HABITACÃO E SANEAMENTO DAS CIDADES

FISHER SCIENTIFIC COMPANY

635 Greenwich, NEW YORK (14), N.Y. USA

1	-	GAS MEASURING UNIT Ref: 10-600-36	US\$	30,00
2	-	4 GAS ABSORPTION UNIT Ref: 10-600-42 (25.50)		102,00
3	-	4 GAS " " Ref: 10-600-44 (21.50)		86,00
4	-	3 THERMOMETERS Ref: 10-600-93 (3.50)cada		10,50
			TOTAL US\$	228,50

MATERIAL PARA O GABINETE DE HIGIENE DA HABITACÃO E SANEAMENTO DAS CIDADES

PARR INSTRUMENT COMPANY

211 Fifty-third St Moline, ILLINOIS

1	-	ELETRIC WATER UNIT - Série 1500 - Ref: 150	US\$	66,00
2	-	IGNITION UNIT-CALORIMETER, TRANSFORMER TYPE Ref: 2901		23,00
3	-	2 THERMOMETER, CALORIMETER, 19-35°C, 02º div NBS CERT. Ref: 1613		76,00
4	-	TURBIDIMETER, VISUAL TYPE WITH CONSTANT VOLTAGE TRANSFORMER FOR 115 v, 50/60 cy, ac, Ref: 24022		98,00
			TOTAL	US\$ 263,00

Instrumentos para o Laboratório de Luminotécnica: -

Conforme Catálogo da Weston Electrical Instrument Corporation  
Catalog Section 11 - PLI - H 1156

2	Model 756 Illumination Meter (with VISCOR) and cosine correction filters and leather case)	638,00
2	Model 759 Foot-Lambert Meter	424,00



33

1) Instrumentos para o Laboratório de "ACÚSTICA"  
 Conforme Catálogo General Rádio Company "Catalog 0"

Type	Especificação	Code word	Preço
1 - 1304-BM	Beat-Frequency Audio Generator ( 105-125 volts, 60 c)	Carol	575,00
1 - 1214-A	Unit Oscillator (including power supply	ALLAY	68,00
1 - 1551-A	Sound Level Meter	MIMIC	370,00
1 -	Set of replacement Batteries	MIMICADBRAT	3,35
2 - 1262-A	Power Supply	MANLY	140,00
2 - 1551-PIL	Condenser microfone System	NONAL	600,00
2 - 1551PIH	Hig Level microfone Assembly	NATAL	600,00
2 - 1551-PIL	20 db Pad	LABEL	30,00
1	Set of replacement Batteries	NONALADRAT	11,15
2 - 759-P25	Dynamic Microphone Assembly	NABOR	374,50
2 - 759-P22	Extra 100-Foot cable	NASAL	60,00
1 759-P35	Vibration Pickup	NOSEY	40,00
1 759-P36	Control Box	NANNY	65,00
1 759-P21	Prípod and Extensio Cable	KIMBO	33,50
3 1555-A	Sound-Survey Meter	MISER	420,00
2 1555-A	Sound-Survey Meter	MISER	3,30
3 1555-P2	Leather Carrving case	CAGED	30,00
1 1552-B	Sound Level Calibrator	NATTY	47,50
1 1307-A	Transistor Oscillator	OMEGA	80,00
1 1550-A	Octave-Band Noise Analyzer	ABEAM	535,00
	Replacement batteries	ABEAMADBAT	6,25
1 1550-R1	Microphone adaptor plug	MATOR	4,00
1 1261-A	A-C Power Supply	NUTTY	128,00
1 760-B	Sound Analyzer	ATTAR	520,00
	Seto of replacement batteries	ATTARADRAT	13,10
1 1550-P1	Microphone adaptor plug	MATOR	4,00
1 761-A	Vibration Meter	VIRUS	490,00
1 76a-P1	Replacement Pickup	NOSEY	40,00
	Replacement batteries	VIRUBADBAT	6,25
1 MAP-2-S1	Permanent-Magnet Clamp	MAGNO	7,50
1 762-B	Vibration Analyzer	AWARD	585,00
1 1534-A	Polariscope	FOCUS	980,00
2 1532-B	Strobolume	TITLE	530,00



RELAÇÃO ADICIONAL DE DIAPOSITIVOS PARA AS DIFERENTES

CADEIRAS DA FACULDADE

Na Espanha

Ao Senhor SANS VEGA  
Laboratório Fotográfico de Arte e História  
Concha Espina, 31  
MADRID

Historia del Arte Universal y español

Selección de diapositivos

Série primeira - completa com 276 diap. 3,25 p|u - 897 pts.  
Série segunda - completa com 725 diap. 3,25 p|u 2356,25 pts.  
e mais  
Arquit. Espanhola del S. XVI 80 diap. 4.00 320,00 pts.  
Vandelvira com 20 diap. 4.00 p|u - 80,00 pts.  
Arquit, Esp. S. XVII e XVIII 40 diap. 4.00 p|u - 160,00 pts.  
US\$ 91,00

CADEIRA DE GEOMETRIA DESCRITIVA

Alemanha

Phywe A G - GOTTINGEN  
Pernruf 22366 - DRAHTWART  
100 Modêlos para o ensino de Geometria Descritiva em  
Plástico..... \$US- 2.500,00

MATERIAL DESTINADO A DEMONSTRAÇÃO E ENSINO DE ENGENHARIA  
CLASSIFICAÇÃO ALFANDEGÁRIA Nº 90-26

Relação dos aparelhos destinados ao Gabinete de  
TÉCNICA DA CONSTRUÇÃO - TOPOGRAFIA

PROCEDÊNCIA - INGLATERRA

2 - Níveis automáticos Cowley da Hilger & Watts, completos.....	59,00	118,00
4 - Eclímetros Watts, da Hilger & Watts, ref. B-618.....	23,00	92,00
3 - Trânsito de bolso, Hilger, & Watts, ref. B-536.....	59,00	177,00
1 - Taqueômetro Watts, nº 2,ç/ iluminação elétrica, tripe extensível e bus sola tubular.....	1.114,00	1.114,00



1 - Planímetros Albrit, Hilger & Watts, P-2336-A, sistema métrico.....	19,75	19,75
1 - Alidades Watts, da Hilger & Watts, completas, modelo unico.....	520,00	520,00
1 - Barômetros, tipo Paulin, modelo único.....	184,00	184,00

PROCEDÊNCIA-SUISSA

1 - Telêmetro Wild portateis para 350 ms.	175,00	175,00
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PROCEDÊNCIA - ALEMANHA

1 - Projetor Zeiss, modelo Wh-400, c/lâmpada de 500 Watts, corrente 110volts.	255,00	255,00
1 - Taqueômetro Carl Zeiss Th-3.....	1.400,00	1.400,00
1 - Nível Carl Zeiss Ni-3.....	620,00	620,00
1 - Nível Carl Zeiss Ni-2.....	455,00	455,00
1 - Estereotopo Zeiss completo.....	260,00	260,00



PRESIDÊNCIA DA REPÚBLICA  
CONSELHO NACIONAL DE PESQUISAS  
INSTITUTO BRASILEIRO DE BIBLIOGRAFIA E DOCUMENTAÇÃO

SUGESTÕES PARA AQUISIÇÃO DE MÁQUINAS GRÁFICAS:

Máquina para Composição Tipográfica:

1 Intertype mod. C.4 (complete, com 4 magazines)

Intertype Company  
360, Furman Street  
Brooklyn, 1 N.Y. U.S.A.

Preço aproximado nos EE.UU. 18.000,00

Máquina para Impressão:

1 original Heidelberg Plana, 54 x 72 cm

Schnellpressenfabrik A./G.  
Heidelberg

Preço na Alemanha 8.800,00

ou

1 Frankental Gralex

Albert Frankental  
Pfalz  
Alemanha Ocidental

Preço na Alemanha 9.500,00

TOTAL GERAL DA LISTA "A" - US\$ 137.722,50



EQUIPAMENTO para o Laboratório da FISILOGIA  
da Faculdade de Odontologia da Universidade  
da Bahia

Electric Apparatus of  
alternating current of  
60 cycles

Pedido feito pelo catálogo de  
1959 (10 th. Edition), de C.F. PAL-  
MER (London), Ltd. Myographic  
Works, 63<sup>a</sup> Effra Road.- Brixton,  
London, S.W. 2.

Lista "A"

	<u>Custo Total</u>	<u>US\$</u>
The Brodie-Starling Kymograph Unit .....	A-9	1.293,60
The Electric <del>12</del> Recording Drum .....	A-143	184,80
Extension for long paper .....	A-133	53,20
White Glazed paper: In cut pieces (five of each) .....	A-300	56,00
In rolls - (10 rolls)....	A-305	140,00
( 5 rolls) ...	A-306	66,50
Ten (10) Drum paper clip .....	A-297	28,00
Stand for Recording Drums .....	A-150	23,10
Smoking Stand .....	A-251	23,80
.....		
Stand for smoker and varnishing .....	A-298	42,00
Direct Weiting time-markers .....	B-102	36,40
Time Clock-power unit .....	B-130	137,20
Time Marker (100) .....	B-120	1.960,00
Time Marker Multiple .....	B- 22	30,80
Pneumatic Signal .....	B- 30	9,80
The Brodie tambour .....	C-2	16,10
Tambours - Student's .....	C-3	7,70
Ajustable .....	C-5	16,80
" .....	C-6	21,00
Large .....	C-7	14,70
Two (2) Mercury Manometer .....	C-21	56,00
Flost with neddle tube .....	C-35	0,70
Fine glass canula .....	C-33	2,80
Water Manometer .....	C-36	13,30
Special float and wire .....	C-37	2,10
Mercury Manometer .....	C-26'	12,60
Two (2) Gimbal lever .....	C-97	21,28
Simple lever .....	C-95	3,08
" .....	C-96	3,92
The Brodie Universal lever .....	C-100	3,92
A transportar .....		4.281,20



		Custo Total US\$
	Transporte ....	4.281,20
Ten (10) All-metal frontal writing point	complet.... C-172	84,00
Ten (10) Frontal writing point .....	C-170	2,80
Ten (10) Heart Clips (frog's) .....	C-145	0,47
Ten (10) " " (Mamalian's) .....	C-146	0,58
Very light ink pens (Ten 10) .....	C-190	0,58
" " " " " " .....	C-191	0,47
Levers Simple .....	C-95	3,08
" " .....	C-96	3,92
Fixit .....	C-101	4,20
" .....	C-101 B	7,00
Three (3) Brodies Universal lever .....	C-100	38,08
" " " " .....	C-93	5,04
" " Starling heart lever. ....	C-108	30,24
Two (2) After load lever .....	C-106	15,12
Two (2) " " " .....	C-105	7,56
Isometric lever .....	C-109	5,32
Student's isometric lever ....	C-107	5,88
Oxford isometric lever .....	C-111	11,48
Myographs .....	C-112	7,00
	C-112 A	7,00
	C-113	12,88
	C-114	4,06
Hook and weight's .....	C-140	1,82
Frog's Musels Chamber .....	C-122	14,56
" Heart " .....	C-126	19,88
Vertical Adjustment Stand .....	D-2	4,62
	D-2A	5,04
	D-3	10,08
	D-4	8,82
Vertical adjustment attachment .....	D-14	21,70
Multiple upright .....	D-43	11,90
Three (3) Brass T Rods .....	D-59	0,98
Rods ... Six (6) Suporting roods .....	D-50	16,80
" " " " .....	D-52	16,80
" " " " .....	D-53	16,80
Brass rods ... (six-6) .....	D-60	16,80
Universal joints (Three - 3) .....	D-16	12,60
" " .....	D-17	8,40
" " .....	D-18	8,40
	A transportar...	4.753,20



Custo Total  
US\$

	Transporte ...	4.75,00
Blocks ..... (Six 6) .....	D-20.	16,80
" " .....	D-20A	16,80
" " .....	D-21	20,00
Three (3) .....	D-22	8,40
.....	D-33	5,32
Three (3) .....	D-115	12,60
Six (6) .....	D-25	16,80
.....	D-36	6,86
.....	D-37	7,70
Three (3) .....	D-38	50,40
Clamps ..... Three (3) Small V .....	D-66	21,63
" " " " .....	D-67	6,58
Two (2) Simple musele grip. ....	D-63	10,08
" " Simple musele grip .....	D-61	10,64
" " Musele grip ....	D-64	7,56
" " " " .....	D-62	8,42
Thermometer clamp .....	D-68	2,38
Three (3) Hook grip ...	D-65	13,02
Three (3) Ball jointed arm and clamp	D-89	37,80
" " " " " " " "	D-82	9,08
Six (6) Ball jointed arm and clamp .....	D-86	55,44
Three (3) Ball jointed arm and calmp .....	D-83	8,82
" " " " " " "	D-81	12,60
" " " " " " "	D-84	12,60
Two (2) " " " " "	D-87	22,40
Three (3) " " " " "	D-88	25,20
Two (2) " " " " "	D-90	23,52
Miniature ideal Respiration Pump(As- sembly) .....	E-119	193,20
The Brodie Operating Table (Complete)	E-20	229,60
Animals Holders .... For cats .....	D-23A	35,70
For small animals...	E-24A	11,20
" " " .....	E-26	17,50
Two (2) small metal cocks .....	E-100	12,32
Stetograph .....	E-7	5,50
Two (2) Double Respiration valve Chamber .....	E-102	44,80
Cannulae .... Serew adjustable .....	E-78	4,48
" " .....	E-79	4,76

A transportar....

5.762,00



	Transporte ...		5.742,41
Intraventricular .....	E-90		6,30
"    " .....	E-91		3,50
"    " .....	E-92		1,68
Y Tracheal 1/4 in .....	E-47		3,08
"    "    "    " .....	E-48		36,40
"    "    "    " .....	E-49		3,36
"    "    5/8 in .....	E-50		3,64
"    "    "    " .....	E-51		3,64
"    "    "    " .....	E-56		1,82
Perfusion ... Two (2) .....	E-65		6,72
" .....	E-60		4,90
Tracheal .....	E-70		3,36
" .....	E-72		3,22
" .....	E-74		3,36
" .....	E-76		3,50
" .....	E-82		7,00
" .....	E-84		7,28
" .....	E-86		8,28
Multi purpose recording spirometer .....	E-157		476,00
Three (3) .....	E-193		7,56
.....	E-192		1,75
Two (2) .....	E-196		28,00
.....	E-220		4,20
Two (2) .....	E-153		16,24
Perpex oneometers .....	F-148		10,64
	F-150		13,72
Three (3) Class Jar Bath .....	F-39		207,90
Keys .....Reversing .....	H-5		11,20
Pohl's commutator .....	H-7		6,16
Morse .....	H-11		9,52
Foot switch .....	H-15		18,48
Instantaneous .....	W-240		14,00
Du Bois Reymond Induction Coil .....	H-30		39,20
"    "    "    "    " .....	H-31		48,30
Electrodes ..... Platinum .....	H-60		2,10
	H-61		2,10
Unipolar .....	H-68		8,68
Bipolar (two - 2).....	H-70		22,40
Clother peg .....	H-72		8,68
Miniature .....	H-63		5,60
Sliding jaw .....	H-87		16,80
Dastre's .....	H-71		9,80
The key .....	W-225		16,24

Total 6.858,72

(TOTAL .... 6.858,72)



LISTA "A"

G E O M E T R I A

Basemann and Kelly - PROJECTIVE GEOMETRY AND PROJECTIVE METRICS  
N.Y. Academic Press 1953 ..... US\$ 7.00

A L G E B R A

Jacobson, N. - LECTURES IN ABSTRACT ALGEBRA V. I e II. Van Nostrand (deverá ser publicado o vol. III)  
Volume I ..... 6.00  
Volume II ..... 6.75

Halmos - FINITE DIMENSIONAL VECTOR SPACES. Princeton University Press, 1942 ..... 3.00

Baer, R. - LINEAR ALGEBRA AND PROJECTIVE GEOMETRY. Academic Press ..... 6.80

TOPOLOGIA GERAL

Kelly, J.L. - GENERAL TOPOLOGY. D. Van Nostrand Company. 1955.. 8.75

US\$ 38.30

RELAÇÃO DE INSTRUMENTOS E APARELHOS DE FISICA PARA AS  
CADEIRAS DE FISICA GERAL, EXPERIMENTAL, SUPERIOR, TEO-  
RICA DA FACULDADE DE FILOSOFIA

Quant.	Nº catálogo	Especificação	P.Unit.	Valor
10	46	Paquímetros.....	6.50	65.00
5	40	Micrometros .....	7.00	35.00
3	179C	Parafusos microm. ....	22.50	67.50
1	179D	Idem .....	14.85	14.85
5	297	Esferômetros .....	14.50	72.50
1	68A	Catetometro .....	196.50	196.50
1	824K	Cronômetro - prec. ....	70.00	70.00
1	837	Pendulo de segs. ....	35.00	35.00
1	847	Disjuntor .....	43.50	43.50
1	2154	Estroboscópio .....	125.00	125.00
2	2738	Lunetas de ret. ....	34.00	68.00
2	579G	Alavancas óticas Ficht .....	13.50	27.00
2	739B	Mosas de forças Kennon .....	32.50	65.00
1	848B	Ap. de Aceleração .....	97.50	97.50
1	2392A	Bobina de centelha .....	17.15	17.15
2	962	Espêlhos giratórios .....	9.95	19.00
1	1215	Barômetro Fortin .....	38.50	38.50

US\$1.057.00



Quant.	Nº catálogo	Especificação	P.Unit.	Valor
				US\$ 1.057.00
1	1309	Anemometro .....	37.50	37.50
2	1402	Bombas de vácuo .....	295.00	590.00
1	1392	Bomba de vácuo .....	255.00	255.00
1	1407K	Tambor 5 galões 61cc de vácuo .	10.85	10.85
3	1388	Trapas de vácuo(28x200x16) ....	5.25	15.75
5	1387	Idem idem (28x200x16) ....	7.15	35.75
2	2619	Bobinas de Tesla .....	12.75	25.50
1	1453	Barômetro de McLeod .....	235.00	235.00
1	1455B	Vacuômetro de Philips .....	198.00	198.00
2	5698	Termômetros de Beckmann .....	32.50	65.00
2	1686	Calorímetros de fluxo .....	34.50	69.00
2 dzs.	1837	Imans em barras finas .....	0.45	10.80
12	1838	Imans em barra c/ ponta esf. ..	1.75	21.00
12	1809	Imans em barra retangular .....	0.50	6.00
12	1811	Imans em barra retangular .....	1.10	13.20
12	1807	Idem .....	0.30	3.60
12	1815	Idem .....	0.50	6.00
12	1816	Idem .....	1.10	13.20
5	1829	Imans de ferradura .....	1.25	6.25
10	1809A	Imans de alnico .....	1.85	18.50
10	1812A	" " " cilíndrico .....	0.90	9.00
10	1812B	" " " " ....	2.50	25.00
10	1812C	" " " " ....	6.75	67.50
10	1814A	Blocos de iman de alnico .....	1.25	12.50
2	1954	Eletrofoto .....	14.25	28.50
3	1970	Eletroscópio de Braun .....	12.50	37.50
2	1965	Eletrocópico .....	7.50	15.00
2	2273	Colula padrão .....	45.00	90.00
2	2273C	" " .....	17.00	34.00
2	2392	Bobinas de indução .....	130.00	260.00
3	2608	Transformadores de voltagem va- riável .....	27.50	82.50
1	2687	Galvanômetro tangente .....	78.50	78.50
2	2704	" " .....	26.70	53.40
1	2706	" balístico .....	66.00	66.00
1	2705	Idem, tipo R. 0,5 microcolt ...	96.00	96.00
1	2705	Idem, 0,0001 amps. ....	96.00	96.00
3	2707	Lâmpadas e escalas p/ galvano- metro .....	59.00	177.00
3	2738	Telescópio de leitura p/ galva- nômetro .....	34.00	102.00
3	2713	Shunt de Airton .....	37.00	111.00
3	3031E	Voltímetros .....	25.75	77.25
				<u>4.211.55</u>



Quant.	Nº catálogo	Especificação	P.Unit.	Valor
			US\$	4.211.55
3	3031F	Voltímetros .....	27.75	83.25
3	3034A	Milicoltímetros .....	17.50	52.50
3	3031G	Amperímetros .....	17.50	52.50
3	3031J	Amperímetros .....	17.50	52.50
3	3031S	Miliamperímetro .....	18.50	55.50
3	3031T	Idem .....	18.50	55.50
3	3081B	Voltímetros .....	20.50	61.50
3	3081C	" .....	20.50	61.50
3	3081T	Amperímetros .....	21.00	63.00
3	3081D	" .....	19.50	58.50
3	3081F	" .....	19.50	58.50
3	3081H	" .....	19.50	58.50
1	3006E	Milivoltímetros .....	38.50	38.50
1	3006G	" .....	38.50	38.50
1	3018B	" .....	46.50	46.50
1	3018E	" .....	46.50	46.50
1	3018J	" .....	46.50	46.50
1	3018N	" .....	46.50	46.50
1	3018U	" .....	46.50	46.50
1	3019L	Microamperímetro .....	57.50	57.50
1	3019H	" .....	57.50	57.50
1	3009F	Miliamperímetro .....	39.75	39.75
1	3009B	" .....	39.75	39.75
1	3023E	Amperímetro .....	43.35	43.35
1	3023G	" .....	43.35	43.35
1	3023P	" .....	43.35	43.35
1	3076	Voltímetro .....	46.50	46.50
1	3076A	" .....	46.50	46.50
1	3076B	" .....	46.50	46.50
3	2754E	Caixas de resistência .....	38.75	116.25
3	2756	Idem .....	44.50	133.50
3	2756A	Idem .....	56.00	168.00
1	2753	Caixa de resistência .....	44.00	44.00
1	2753B	Idem .....	47.25	47.25
1	2753E	Idem .....	66.00	66.00
3	2826	Resistência 100 ohms .....	5.00	15.00
3	2826	" 1 ohm .....	5.00	15.00
3	2826	" 2 ohms .....	5.00	15.00
3	2826	" 5 ohms .....	5.00	15.00
3	2826	" 10 ohms .....	5.00	15.00
3	2826	" 50 ohms .....	5.00	15.00
3	2826	" 500 ohms .....		18.00

US\$ 6.381.35



Quant.	Nº catálogo	Especificação	F.Unit.	Valôr
				US\$ 6.381.35
3	2826	Resistência 5000 ohms .....		7.50
2	2804	Ponte de Wheatstone tipo de caixa	11.25	22.50
1	2744A	Ponte de Wheatstone Leeds and Northrup .....	107.00	107.00
1	2749E	Ponte de Kelvin .....	184.00	184.00
2	2817	Potenciômetros.....	37.50	75.00
1	2749B	" .....	408.00	408.00
1	2152B	Caixa de capacidade .....	17.25	17.25
1	2152C	" .....	14.75	14.75
1	2833B	Condensador .....	80.50	80.50
2	2617A	" .....	74.50	149.00
5	2915	Contato de platina .....	18.75	93.75
2	623	Tubos p/ determinação de c/m ....	75.00	150.00
1	623A	Bobina de Helmholtz .....	128.00	128.00
1	620	Ap. p/ determinação carga eletrô- nica .....	225.00	225.00
1	620K	Fonte de voltagem para 620 .....	38.50	38.50
1	622	Placa para 620 .....	68.50	68.50
10	2148K	Contadores elétricos .....	4.20	42.00
5	2148	Células fotoelétricas .....	12.00	60.00
5	2148E	Tubos fotoelétricos .....	6.75	32.75
2	4854	Cartas periódicas dos elementos..	7.50	15.00
2	2156	Contadores de radioatividade ....	149.00	298.00
2	621A	Aparelhos para medição de raios Alfa .....	79.85	159.70
2	5542	Espintaroscópio .....	6.85	13.70
1	2162	Contador Decimal .....	367.50	367.50
5	624D	Tubos de radon .....	2.50	12.50
5		Sulfetos de zinco fosforescente garrafas de 25 gramas .....		
2	624	Elotroscópio p/ radioatividade ..	72.50	145.00
2	3583	Fotômetros .....	84.50	169.00
2	3584A	Cabeças photoelétricas .....	28.50	57.00
10	3660	Lâmpadas padrão .....	2.25	22.50
50	3595	Velas padrão .....	0.40	20.00
2	3622	Barras padrão graduadas de 200cm	40.50	81.00
2	3622A	Barras não graduadas .....	18.00	36.00
4	3625	Paros de suportes p/banco ótico..	8.75	35.00
20	3627	Suportes para banco ótico .....	9.50	190.00
10	2629	Sustentáculos p/ lentes .....	2.45	24.50
4	3640	Fendas reguláveis .....	12.75	51.00
4	3642	Diafragmas reguláveis .....	12.50	50.00
2	2149	Suportes p/ cóculo foto elétrica..	3.70	7.40
				<u>10.040.15</u>



Quant.	Nº catálogo	Especificação	P.Unit.	Valor
				US\$ 10.040.15
2	4310	Suportes para prisma .....	5.50	11.00
3	3680	Fontes luminosas p/banco ótico .	22.25	67.25
4	H3550C	Fontes luminosas .....	15.50	62.00
2	3714	Material polaroide .....	15.50	31.00
5	3480	Prismas 60º .....	1.00	5.00
5	3481	Prismas retos .....	1.10	5.50
5	3494	Placas prismáticas retangulares de vidro .....	0.95	4.75
5	3498	Cubos de vidro .....	2.85	14.25
2	3484	Prismas montados .....	10.75	21.50
3	3399	Lentes .....	1.15	3.45
3	3400	" .....	0.75	2.25
3	3404	" .....	0.55	1.65
3	3408	" .....	0.55	1.65
3	3409	" .....	0.75	2.25
3	3410	" .....	0.75	2.25
3	3412	" .....	1.40	4.20
3	3413	" .....	1.40	4.20
3	3413A	" .....	1.40	4.20
3	3414	" .....	1.40	4.20
3	3416	" .....	2.15	6.45
3	3418	" .....	3.00	9.00
3	3420	" .....	4.75	14.25
3	3422	" .....	5.00	15.00
3	3424	" .....	1.15	3.45
3	3428	" .....	1.15	3.45
3	3332	" .....	1.15	3.45
3	3435	" .....	1.25	4.25
3	3436	" .....	1.45	4.35
3	3438	" .....	3.35	10.05
4	3452	Lentes de condensador .....	3.50	14.00
2	3456	" " " .....	3.50	7.00
2	3458	" " " .....	4.50	9.00
1	3440	Conjunto de Lentes .....	4.25	4.25
1	3443	" " " .....	7.00	7.00
3	3448	Pares acromáticos .....	5.00	15.00
3	4328	Telescópios de leitura .....	16.50	49.50
3	4326	Suportes de telescópio .....	4.05	12.15
5	3805E	Rêdes de difração .....	2.50	12.50
5	3806E	" " " .....	2.50	12.50
2	3807A	" " " .....	6.00	12.00
2	3808A	" " " .....	6.00	12.00

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 10.533.30



Quant.	Nº catálogo	Especificação	P. Unit.	Valor
				US\$10.533.30
2	3812A	Rêdes de difração .....	15.00	30.00
2	3813A	" " " .....	15.00	30.00
2	3814A	" " " .....	10.00	20.00
2	3815A	" " " .....	10.00	20.00
2	3809A	" " " .....	15.00	30.00
2	M5218	Placas de interferência .....	0.75	1.50
2	3552	Placas para anéis de Newton .	3.95	7.90
12	3701	Filtros polaroides .....		50.00
24	3709B	Lâminas polarizantes .....	1.00	24.00
2	3704A	Instruções s/luz polarizada..	0.50	1.00
2	3704B	Exercícios s/luz polarizada..	0.35	0.70
5	4856A	Cartas de espectros .....	5.00	25.00
1	3687	Espectroscópio de visão direta.....	50.00	50.00
2	3720G	Lâmpadas de mercúrio .....	64.50	129.50
2	3720B	Lâmpadas de sódio .....	100.00	200.00
2	3680	Fontes de luz univers. ....	22.25	44.50
2	3680B	Complementos para acima .....	1.75	3.50
10	3680D	Lâmpadas sobressalentes para 3680 .....	1.75	17.50
2	3673A	Fontes de filamentos concen- trado .....	40.50	81.00
2	3680K	Lâmpadas de arco .....	57.50	115.00
2	3661S	Filtros de cores .....	55.00	110.00
1	1575B	Cartaz de instrução em física Geral .....	70.00	70.00
10	123	Níveis de bolha (circular)...	1.75	17.50
5	125	Níveis de bolha (hexagonal)..	1.50	7.50
5	5808	Chamois .....	1.45	7.25
12	5889	Fios manganin-3 nº 18 .....	1.35	4.05
		3 nº 20 .....	1.35	4.05
		3 nº 24 .....	1.40	4.20
		3 nº 30 .....	2.25	7.25
1	4154A	Pêso de laboratório .....	6.35	6.35
1	4156A	" " " .....	11.00	11.00
1	4158A	" " " .....	13.75	13.75
1	3362	Pêso de 1/2 Kg. ....	1.50	1.50
1	3362	" " 1 Kg. ....	1.85	1.85
1	3362	" " 2 Kg. ....	2.65	2.65
1	3362	" " 5 Kg. ....	4.45	4.45
1	3360	Suporte para os pesos .....	2.35	2.35
1	4180A	Peso de laboratório .....	9.25	9.25
1	4194A	Peso de laboratório .....	9.75	9.75
5	5903A	Papel de amianto .....	2.25	12.25

US\$ 11.721.35



Quant.	Nº catálogo	Especificação	P.Unit.	Valor
				US\$ 11.721.35
6	5665	Termômetros Weston de limbo circular		
		3 - 0º C a 100º C	7.50	22.50
		3 - 0º C a 150º C	7.00	21.00
1	7970D	Microscópio B & L modelo FPH-8.		280.00
1	8015A	Lupa estereoscópica modelo JK-2 B & L .....		319.50
15	4625	Óleo de imersão para microscopia .....	0.50	2.50
3	8105	Placa graduada para ocular de Huygens .....	5.50	16.50
				<u>12.383.35</u>

RELAÇÃO DE INSTRUMENTOS E APARELHOS DE FÍSICA

Central Cientific Co. através sua Agência de Exportação  
Cenco S/A - Branch Office Breda, The Netherlands

Nota: Números de catálogo referem-se ao catálogo - J-200

Quant.	Nº catálogo	Especificação	P.Unit.	Valor
5	11455-2	Graxa de vácuo .....	1.00	5.00
5	11456	" " " .....	1.75	8.75
2	73425-2	Relógios interruptores "Gralab"	26.95	53.90
1	71010	Elctrometro .....	135.00	135.00
2	80298-1	Controles "Powerstat" .....	65.00	130.00
2	80299	Controle "Powerstat" .....	16.50	33.00
1	72905	Microscópio de medida .....	62.50	62.50
1	72910	Micrometro filar .....	99.00	99.00
1	72915	Deslocador micrométrico .....	-	349.00
1	72920	Suporte de microscópio .....	-	39.75
1	72926	Objetiva .....	-	23.00
2	65570	Ocular micrométrica .....		192.00
4	80433	Válvulas sobressalentes .....	8.70	34.80
3	86205	2 fondos de difração .....	2.00	6.00
3	86210	Ranhuras de difração .....	4.20	12.60
2	86220	Duplas ranhuras .....	5.50	11.00
2	86225	Ranhuras múltiplas .....	7.00	14.00
2	86230	Duplas ranhuras .....	15.00	30.00
2	86242	Biprimas de Fresnel .....	9.75	19.50
5	86250	Rêdes de difração .....	3.95	19.75
1	87010	Espectrometro de rede, montagem de Rowland .....		535.00
1	87060	Espectrometro .....		590.00
2	87055	Primas .....	28.00	56.00
				<u>14.842.90</u>



Quant.	Nº catálogo	Especificação	P.Unit.	Valor
				US\$ 14.842,90
1	87020	Espectrometro .....		525.00
2	87022	Grampos de comparação .....	16.00	32.00
1	87024	Grampo de prisma .....		7.00
1	87026	Câmera para espectrometro .....		115.00
1	93010	Bomba Alto vácuo Hypervac 25 ...		581.00
				<u>US\$ 16.102.90</u>
				=====

PEDIDO PARA O LABORATÓRIO DE QUÍMICA ORGÂNICA E BIOLÓGICA

DA FACULDADE DE FILOSOFIA

OBS:- A 2ª PARTE DO PEDIDO CONSTARÁ DE DROGAS, QUANDO NÃO HOUVER ESPECIFICAÇÃO ENTRE PARENTESE, O PEDIDO DO MATERIAL SE REFERE AO CATÁLOGO DE A. THOMAS (1950)

V I D R A R I A

10-106	Flask, saponification, Corning No. 7280 alkali resistant glass, ASTM - 1 case of six #24/40 outer joint .....	US\$	103.79
10-106-5	Condenser tube saponification, Corning No. 7280 alkali resistant glass. It is 550 mm long, has # 24/40 inner joint - 1 case (F. 1959) .....		92.66
10-108	Flask, Kjeldahl, long neck, Vycor brand glass. 1 case of 4, (F.1959) .....		65.59
10-113	Flask, Kjeldahl, Fisher - Rieman, Long-Neck, with # 34/45 joint 12 lot, (F.1959) (1 dozen) .....		9.50
10-162	Flask, Fisher Grignard, made of pyrex (F.1959) brand glass, 250 ml 1 dozen .....		59.40
10-396	Funnel heat and water bath, electric A, for 115 volt a - c .....		77.10

CONDENSERS

7-721	Condensers, Liebig, pyrex brand glass, with inner and outer joints. Length of jacket, mm	300	400	500	
	# joint No.	24/40	24/40	24/40	
	1 case	\$ 29.95	\$31.82	\$33.77	
7-722	Condensers, Liebig, pyrex brand glass, sealed with interchangeable ground joint.				
	Length of jacket, mm	300	400	500	600
	# Joint No.	24/40	24/40	24/40	29/42
	1 case	\$22.93	\$25.09	\$27.00	\$29.95
7-723-5	Condensers, west improved type, pyrex brand glass, with inner and outer joints (F.1959)				
	Length of jacket, mm	300	400	500	
	# Joint No.	24/40	24/40	24/40	
	1 case	\$24.12	\$25.09	\$25.78	
7-724-15	Condenser, west type, Kimax, with joints (F.1959)				
	Jacket length, mm	300		500	
	# Joints	24/40		24/40	
	1 case	\$24.12		\$25.09	

US\$ 732.75



7-728	Condensers, Graham, pyrex brand glass, with inner and outer $\text{E}$ joints 24/40 (F.1959)				
	Length of jacket, mm	300	400	500	
	1 case	\$54.27	\$38.81	\$41.47	
7-734	Condensers, Allihu pyrex brand glass, with $\text{E}$ ground joints. 24/40 (F.1959)				
	Length of jacket, mm	300	400		
	1 case	\$41.74	\$45.04		
7-736	Condensers, Allihu, pyrox brand glass, with inner and outer joints. (F. 1959)				
	Jacket length, mm	200	300	400	500
	$\text{E}$ joints	19/38	24/40	24/40	24/40
	1 case	\$42.71	\$49.19	\$52.16	\$55.03
					\$60.48
7-742	Condenser Hopkins, reflux, pyrex brand glass, with $\text{E}$ ground joint. 24/40 - 1 case (F. 1959) .....				37.12
7-744-2	Condenser, Friedrichs, pyrex brand glass, with $\text{E}$ joints (F.1959) 1 case .....				38.34
7-744-5	Condenser, Friedrichs, pyrex brand glass $\text{E}$ joints (F. 1959): lease .....				43.63
9-754	Filter apparatus, Morton, bacteria, pyrex brand glass with fritted disc. (29/26 ground joint) - F. 1959 - 1 case of 2 .....				42.64
9-150-5	Distilling trap, Barrett water test, pyrox brand glass (F. 1959) - case .....				45.14
9-177	Distilling columns, modified Vigreux, pyrex brand glass - Height, mm	375	475	575	
	1 case	\$22.68	\$30.46	\$37.80	
9-172	Distilling columns, pyrex brand glass, with ground joints - Height, mm - $\text{E}$ number	24/40	29/42		
	1 case	\$36.07	\$44.39		
9-178	Distilling columns, modified Vigreux, pyrex brand glass, with interchangeable ground joint (F.1959)				
	Height, mm	470	570		
	$\text{E}$ joint number	24/40	29/42		
	1 case of 4	\$26.17	\$31.61		
9-181	Distilling columns, cold point, made of pyrex brand glass (F.1959) .....				34.50
9-230	drying tubes, Schwarth, U - shape, glass stoppered (F. 1959) Height of tube, mm	100	150		
	6	\$27.00	\$28.50		
9-215	drying tubes, straight, one bulb (F.1959) Length body and bulb, mm	100	150	200	
	Six	\$2.40	\$2.70	\$3.00	
9-220	drying tubes, Straight, two bulbs (F.1959)				
	Length, body and bulb, mm	100	150	200	
	Six	\$3.00	\$3.60	\$4.70	
4734	C distilling apparatus adapters, pyrex brand glass (T.1959) - joints no.	19/38	24/40	29/42	
	per original package*				
	6 containing 6	\$18.90	\$24.41	\$27.54	



- 4753 A distilling adapters, pyrex brand glass (F.1959)  
 2 joints (2), lower inner members, no  
 1 original package+containing 6 19/38 24/40 29/42  
 \$31.10 \$29.00 \$31.43
- 4735 B distillate collector, pyrex brand glass (F.1959)  
 2 interchangeable ground joint No.  
 24/40 19/38 24/40  
 1 original packa-  
 ge containing 6 \$19.98 \$24.57
- 4738-B B abso ption tubes (1959)  
 2 joint (inner member), no 19/38 24/40 29/42  
 Overall length approx, mm 160 185 200  
 1 original package contain-  
 ing 12 \$31.75 \$32.40 \$36.94
- 4739 A distilling heads, Claison, pyrex brand glass  
 (T.1959) 2 joints (4), No. 24/40 29/42  
 1 original package containing 4 \$49.93 \$53.06
- 9-551 extraction apparatus, Kimax Soxhlet, with inter-  
 changeable ground joints (F. 1959)

Size	A	B	C
ID of extraction tube, mm	30	38	50
Joint, tube to flask	24/40	24/40	24/50
Joint, tube to condenser	24/45	34/50	55/50
Uses extraction thimble, mm	80x25	80x33	123x43
Capacity of flask, ml	125	250	500
1 case of 2	\$36.41	\$43.92	\$49.45

- 9-571 - extraction apparatus, with Friedrichs condenser  
 pyrex brand glass.

Size	A	B	C
ID of tube, mm	30	40	50
2 Joint, tube to flask	24/40	24/40	24/40
2 Joint, tube condenser	34/45	45/50	55/50
Capacity of flask, ml	125	250	300
1 case	\$43.31	\$49.30	\$54.40

- 20-650 Micro extraction apparatus, Soxhlet, pyrex brand  
 glass, improved form, with 2 joints (F.1959) -  
 1 case ..... 47.06
- 10-474 Furnace, organic combustion, electric (F.1959) A  
 for 115 volt ..... 375.00
- 10-474-15 Combustion tube, McDaniel (three) ..... 42.00
- 17-060 Storage - dispensing unit, four foot, with Drawer  
 Cupboard unit, Kemrock top (F.1959) ..... 360.00
- 11-471 electric heating mantles, glas-col, new style(F.1959)  
 For flask, liters
- |  | 1/4     | 1/2     | 1       | 2       | 3       | 5       | 12      | 22      |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
|  | \$15.50 | \$17.00 | \$18.50 | \$22.00 | \$27.00 | \$35.00 | \$52.50 | \$71.00 |
- 9-521 Powerstat, variable transformer (F. 1959) ..... 24.00
- 6099 D Glass adapters, reducing (T.1959) 7-19/38 pkg/6 ..... 14.47  
 19-24/40 " / 3 ..... 8.32  
 29-55/50 " / 1 ..... 15.39
- 6099 C Glass adapters, enlarging interchangeable, pyrex  
 brand glass (T.1959) 34 - 19/38 pkg/3 ..... 9.88



6099-H	Glass adapters, bushing type, full length interchangeable, pyrex brand glass (F.1959) 19-10/30 pkg/6 .....	12.42
6100-H	Glass connecting tubes, two-way, ball-and-socket, joints, pyrex brand glass (T.1959) S ball member, upper end, No. 28/15 28/15 28/15 " " " lower " " 28/15 32/25 50/30 \$3.70 \$3.80 \$5.30	
6101-R	Glass connecting tubes, three-way, pyrex brand glass (T.1959) # joints (2) inner member, No. 19/38 24/40 29/42 \$19.44 \$19.06 \$20.90	
6101-Y	Connecting tube, Claisson, pyrex brand glass (T.1959) # joints (3) 24/40 29/42 pkg/6 \$34.40 \$37.26	
6352-C	Magnifier on stand, illuminated, Baush & Long (T.1959)	19.50
6402	Melting point apparatus, Fisher, A.H.T. Co. specification, complete assembly (T.1959) .....	30.65
6436	Micro Alkoxyl assembly, gravimetric procedure, Pregl Zeisel improved model complete (T.1959) .....	106.50
6447	Micro combustion train, carbon and hydrogen, complete outfit (T.1959) .....	632.50
6455-E	Micro combustion train, nitrogen, complete outfit (T.1959) .....	499.00
6462-G	Micro combustion train, halogen and sulfur, grote procedure, electrically heated (T.1959) .....	456.85

MATERIAL DE LABORATORIO DE QUIMICA BIOLOGICA

A P A R E L H A G E M:

14-377-100	Spectrophotometer, Coleman Universal, Model 14-serie 60 (F.1959) .....	789.00
6-405	Blood gas apparatus, Manometric, Fisher-Van Slyke (F.1959) .....	330.00
11-506-1.	Potentiometer, Fisher, Type S (F.1959) .....	165.00
13-947-5	Refractometer, with heater head (F.1959) .....	200.00
13-749	Polarimeter, Kern, Full circle (F.1959) .....	333.65
14-751	Cryoscope, Hortvet, Fisher (F.1959) .....	350.00
4-674-50	Carbon determinator, Lindberg (F.1959) .....	400.00
7-106	Colorimeter, Clinical, Fisher electrophotometer (F.1959) .....	275.00
6-586	Secharometer Set, Einhorn's Fermentation, Kimax (F.1959) per case of 1, .....	6.93
5-101	Centrifuge international, clinical, model electric with four place head (F.1959) o B .....	133.00
1-910-3	Balance gram-atic, macro, mettler (F.1959) .....	950.00
2-031	Balance, triple beam, stainless-steel (F.1959) ...	21.00
2-116	Balance, Fisher, direct-reading, improved (F.1959)	242.00
15-340-100	Vacuum system, Roll - Around, Fisher, (F.1959) complete .....	675.00
1-062	Air pressure-vacuum unit, Fisher A for 115 volts a.c. (F.1959) .....	220.00



									US\$ 10,593.38
9.230-E	Stirring apparatus (T.1959)(No.six) ..								30.00
6504-D	Microscope, Bausch & Lomb A-A (T.1959)..								253.50
9013-D	Specific gravity bottles, blue line Exax (T.1959)								
	Capacity, ml	10 ml	25	50					
	Pkg/4	\$37.10	\$37.10	\$39.95					
11-494	Hot-plate, Temco (F.1959) each (3)	\$19.75							59.25
11-504-50	Heater, infra-red, economy, Fisher(F1959)								8.75
11-504-160	Cooling Cup, Lucipe (F.1959) dozen .....								60.00
13-874-31	Projector, Bausch & Lomb, Model LEM, with built-in blower cooling system (F.1959)..								259.00
14-050	Rings, support, cast iron, with Clamps (F.1959)								
	Outside diam., inches	2	3	4	5	6	7		
	inside diam., inches	<u>1 7</u>	<u>2 3</u>	<u>3 5</u>	<u>4 1</u>	<u>5 1</u>	<u>6 1</u>		
		16	8	16	4	4	8		
	six of each	\$3.90	\$4.20	\$5.10	\$5.40	\$6.60	\$7.20		
14-052	Rings, support, open (F.1959)								
	Outside diam., inches		2		3				
	Six		\$12.00		\$15.00				
7-835	Rings, cork (suberite)								
	Diam., inside, mm	60	90	120	150				
	Diam., out side, mm	110	140	170	210				
	Six	\$3.00	\$3.75	\$4.50	\$6.00				
14-295	Sieves "Mesh" series, Brass Frame, 5 inch diameter								
	Mesh	10	20	40	60	80	100	150	200
	Six	\$2.00	\$2.00	\$2.00	\$2.25	\$2.30	\$2.62	\$3.00	\$3.75
20-819	Micro carin furnace, electric for 115 volt a-c								221.40
8477A	Press, hydraulic, Carver, Laboratory Model, complete outfit (T.1959)								743.00

V I D R A R I A

7890	Oven, Weber electric vacuum, large Model, double Depth (T.1959)								735.00
7812-A	Oven, electric drying, Weber, Type S -2 A.H.T.Co. specification (T.1959)								671.20
7492	Micro-Kjeldahl distilling apparatus, Progl-Parnas Eagner, improved form (T.1959)								103.00
7498	Kjeldahl digesting apparatus, micro.A.H.T.Co. specification (T.1959)								93.00
7260	Molecular weight determination apparatus Bockmann (T-1959)								99.80
4671-B	Distilling apparatus, automatic, stokes utility model 000-E, for electric heating (T.1959)								365.00
15-512	Water bath, Barnstead, electrically heated, (F.1959) A, for 115 volt - a.c.								113.00



		US\$	14.619.00
15-060	Thermometer, Beckmann differential(F.1959)		44.00
12-829	Molecular weight determination apparatus, Beckmann, freezing point (F.1959) .....		19.00
6444-A	Micro combustion train, oxygen, direct determination, Untergaucher procedure(T.1959)		1.263.00
6439-E	Micro Alkimide assembly volumetric procedure Friedrich, improved model complet(T.1959)		157.00
6441	A Micro acyl apparatus, Kuhn-Roth, complete assembly (T.1959) .....		146.00
		US\$	16.248.00
		=====	

CADEIRA DE BOTANICA

1 - Balança de precisão, 150 a 200 g de carga, sensível ao mg., nº 1911 .....	US\$	70.00
1 - Coleção de pesos e caixa protetora envidraçada nº 1973-A .....		41.60
1 - Centrifugador elétrico, com corôa de 4 tubos e velocidade graduável n. 2976		90.00
1 - Dessecador de vidro c/ tampa c/ torneira nº 4450A .		30.00
20 - Frascos de vidro de boca larga, tampa esmirilhada, de 1000 ml nº 6267 à \$3.00 .....		60.00
20 - Idem, idem, idem 2000 ml nº 6267 à \$4.00 .....		80.00
6 - Lâmpadas para microscopia "Mignon" 6977-B à \$ 36.00		216.00
3 - Lupas estereoscópicas, com objetivas e oculares de aumentos variáveis nº 6594B a US\$ 417.00 .....		1.251.00
6 - Microscópios, tipo para estudante, com charriot, 2 oculares (6x e 10x) 4 objetivas (3x, 10x, 45x e ... 100x) e condensador nº 6513B à \$ 299.00 .....		1.794.00
1 - Microscópio de pesquisa, completo nº 6523C .....		1.101.00
1 - Microtomo Spencer ou de Minot com duas navalhas, e demais acessórios nº 7167 .....		528.00

CADEIRA DE PALEONTOLOGIA

1 - Microscópio Esteroscópio .....	US\$	519.00
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GABINETE DE BIOLOGIA GERAL E DIDATICA ESPECIAL DE H.NATURAL

CATALOG - ARTHUR H. THOMAS COMPANY - 1950

Quantity Desired	Catalog Number	Article	Price per Unit	Total Price
1	7167	Microtome, Precision Rotary Spencer, No.820 (Code Word Kehox) .....		US\$ 528.00
2	6551-F	Binocular Microscope, Spencer, N15-MLH (Code Word Iuznc) .....	480.00	960.00
12	6548H	Microscope, Spencer N35-MH (Code Word Iuxsu) .....	299.00	3.588.00
10	6573B	Stereoscopic, Microscope, Spencer 25-LF (Code Word Ivsea) .....	401.00	4.010.00
				US\$ 9.086.00



Quantity Desired	Catalog Number	Article	Price per Unit	Tot. Price
1	6832-D	Abbe Camera Lucida, Spencer (Code Word Jetap) .....	71.00	US\$ 9.086.00 71.00
1	1716-E	Serological Bath, Electric, Small, Model (Code Word Amizn) .....	103.75	103.75
1	1894-A	Balance, Laboratory (Code Word Aomjs) .....	58.00	58.00
1	1986-A	Balance Weights - 1 mg to 20 grams .....	30.25	30.25

.x.x.x.

In the same catalog: Biological Stains, Dry Code Word

100 gr	Xobel	Janus Green B, National, Certified		8.93
100 "	Ydalz	Neutral Red, " "		6.51
100 "	Zaqyn	Wright Stain " "		18.61
100 "	Urdsi	Brilliant Cresly Blue "		28.29
100 "	Ukfur	Aniline Blue, National, Cert., sol. in water		6.51
100 "	Uzigm	Carmine, Coleman & Bell, Cert.		4.09
25 "	Yenhs	Orsein " " "		2.57
100 "	Yonxp	Methylene Blue " "		6.36
100 "	Wolmj	Haematoxylin, Harleco, "		21.75
100 "	Woaqo	Eosin, Bluish, " "		6.45
100 "	Websa	Eosin Yellowish " "		6.45
1	13-874-33	Projector, Bausch & Long, Balomatic 300		84.50
1	13-874-37	Remote Control Cord, 15 Foot		4.95
1	15-349-10	Pipet Washer, Fisher		80.00
1	4-970	Safety Centrifuge, Fisher, with Clinical Head - 115 volts a-c, 50-60 cycle		70.00

GABINETE DE MINERALOGIA E PETROGRAFIA

US\$ 9.704.97  
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Quant.	Especificação	Nº catálogo	Preço Unit.
1	Ward's Basic Systematic Mineral Collection .....	MC 131	90.00
1	Ward's Museum Systematic Mineral Collection .....	MC 146	525.00
1	Tenacity Collection .....	MC 151	1.10
1	Cleavage Collection .....	MC 152	2.25
1	Fracture Collection .....	MC 153	1.10
1	Lrstor Collection .....	MC 156	15.00
1	Crystalline Aggregates .....	MC 160	9.50
1	Interference Figures .....	MC 205	8.80
1	American Rock Collection .....	MC 301	100.00
1	American Rock Collection Thin Sections .....	MC 303	215.00
1	Rock Forming Mineral Collection	MC 311	132.50

US\$ 1.100.25



<u>Quant.</u>	<u>Especificação</u>	<u>Nº</u> <u>Catálogo</u>	<u>Preço</u> <u>Unit.</u>	
			US\$	1.100.25
10	Coddington Magnifier (10 X)	C 712	6.00	60.00
3	Petrographic Microscope Bausch & Lomb	C 5006A Model LC	\$1.580.00	4.740.00
1	Professional Research Worker's Refrac- tive Index Set .....	C-2655-1		35.00
1	Felker Di-Met, with Precision Slide Rotary Table .....	C-4020 Model 11-R		296.75
1	Petrographic Specimen Polisher .....	C-4049		340.35
1	1/3 Horsepower Motor .....	C-4055.05		32.25
1	Cord Set with On-Off Switch .....	C-4055.4		3.70
1	Kraus Jelly Ballance .....	C-2550		259.50
1	Detectron DG-2 Geiger Counter .....	C-2451		98.50
3	Stereoscopic Microscope "Spencer" ....		519.00	1.557.00
6	Microscope Illuminator, AO Spencer U- niversal .....		64.00	384.00
	U. S. Standard Sieves Series:			
1	Opening in Microns : 4000			10.95
1	" " " 2000			9.85
1	" " " 1000			9.85
1	" " " 500			9.85
1	" " mm. 6.35			10.95
1	" " " 17.7			10.95
1	" " " 19.1			10.95
1	" " " 25.4			10.95
			US\$	8.991.60

CADEIRA DE ZOOLOGIA

3	Oculares de demonstração Spencer N35-MH		299.00	897.00
1	Microscópio binocular Zeiss GFL-654-633 com iluminação embutida .....			1.140.70
3	Microscópios (binoculares) Stereoscópicos (Bausch Lomb BKT-5) .....		750.00	2.250.00
1	Microtomo de parafina "Spencer" .....		750.00	750.00

DEPARTAMENTO DE GEOGRAFIA

Aparelhos de Topografia

1	Bússola de Brunton C 2032			46.50
1	Altímetro aneroide (sistema Paulin; ca- libração: -300m a + 1.500m; acuidade - 0.30m) (C 2040) .....			300.00

.....

CADEIRA DE LINGUA E LITERATURA ITALIANA

1	Aparelho epidiascópico Epi-Splendor-Super, Mod. 1960		US\$	404.85
1	Máquina cinematográfica MICROW XXVB .....			448.06

US\$ 852.91



CADEIRA DE LINGUA E LITERATURA ALEMÃ

1	Epidiascópio Welch Scient-Co.	US\$	235.00
1	Gravador Wollensach T-1110		190.00

LIVROS:

<u>Goethe Werke</u>	em 1 volume editado por Heinrich Duntzer em 1 exemplar .....		5.00
<u>Schillers Werke</u>	em 1 volume edição de l. - G. Fischer em 1 exemplar .....		5.00
<u>H. Heine</u> - Buch der Lieder	Diamant - Ausgabe - P. Grot Johann em 2 exemplares .....	§ 4.00	8.00
<u>Echtermeyer</u> - Deutsche Gedichte von Benno von Wiese em 3 exemplares .....		§ 5.00	15.00
<u>Zeichen der Zeit</u> - 4 Bde. hrsqb. von W. Killy Fischer Bucherei .....			4.00

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US\$ 462.00  
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TOTAL GERAL DA LISTA "A" US\$ 62.953,68  
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EDITORA D. VAN NOSTRAND COMPANY, INC.

Charlot - MODERN ELECTROANALYTICAL METHODS .....	US\$	4.95
Lederer and Lederer - CHROMATOGRAPHY .....		14.00
Snell and Snell - COLORIMETRIC METHODS OF ANALYSIS		
Volume I - Theory, Instruments, pH .....		6.50
Volume II - Inorganic Determinations .....		15.00
Volume IIA - Including photometric methods ...		15.00
Volume III - Organic Compounds I .....		12.50
Volume IV - Organic Compounds II .....		12.50
Linke - SOLUBILITIES		
Volume I - Inorganic and Metal-Organic Compounds (A-lr) .....		25.00
Ferguson - TEXTBOOK OF ORGANIC CHEMISTRY .....		7.50
Glasstone - TEXTBOOK OF PHYSICAL CHEMISTRY .....		12.95
<u>EDITORA ACADEMIC PRESS - 1960</u>		
Parsons - HANDBOOK OF ELECTROCHEMICAL CONSTANTS .....		6.00
	US\$	131.90
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RELAÇÃO DE PERIÓDICOS

Conforme catálogo 81 da firma Walter J. Johnson,  
Inc. 111 Fifth Avenue, New York 3, N. Y. -

353 American Chemical Society: Journal. Vol. 1-78 Easton 1879-1956 With Gen. Ind. 1-20 and Proceedings volts. 1-2 1876-1878- Bound .....	US\$	1.250.00
506 Analytical Chemistry. Vols. 1-28. With Gen. Ind. 1-15. 1929-1956. Bound .....		100.00
504 Analytica Chimica Acta. Vols. 1-15- Amsterdam N.Y. 1947- 1956. Unbd.....		250.00
573 Annual Review of Physical Chemistry. Volts. 1-7. Stanford 1950-1956. Bound. ....		45.00
970 Chemical Society, London: Annual Reports on the Progress of Chemistry. Vols. 1-51. London 1905-1954. Bound. ....		150.00
972 Chemical Society, London: Journal. Vols. 1926-1955. Unbd.		485.00
981 Chemical Society, London: Quarterly Reviews. Vols. 1-10. 1947-1956. Unbd. .... per vol.		5.50
1696 Industrial and Engineering Chemistry: Industrial Edition. Easton 1909-1956 .....		240.00
1952 Journal of Chemical Education. Vols. 1-33. Easton 1924- 1956. Bound .....		265.00
1992 Journal of Organic Chemistry. Vols. 1-21 Baltimore 1936- 1956. (Lacks 6 nos, in vols. 17-18). Unbd. ....		475.00
	US\$	3.265.50



118	Acta Chemica Scandinavica, Vols. 1-10. Copenhagen 1947-1956. Unbd. ....	US\$	3.265.50 185.00
135	Acta Physicochimica U.R.S.S. Vols, 1-13 Moscow 1934-1940. Bound. ....		300.00
718	Beilsteins Handbuch der Organischen Chemie. 4th ed. 63 vols. in 52. Berlin 1918-1934. Bound. Also 2nd Supplement. Vols. 1-5 (Photo-Offset Reprint.) ....		680.00
959	Chemical Engineering Progress (American Institute of Chemical Engineers). Vols. 7-52 With Gen. Ind. 16-30. N. Y. 1914-1956. 36 Vols are bound. ....		525.00
966	Chemical Reviews. Vols. 1-56. With Gen. Ind. 1-40 Baltimore 1924-1956. Bound. ....		850.00
1002	Chemische Berichte. (Berichte der Deutschen Chemischen Gesellschaft.) Vols. 1-40. Berlin 1868-1956. Bound. ..		2.500.00
1639	Helvetica Chimica Acta. Vols. 1-39. With Gen. Ind. 1-15. Basel 1918-1956. Partly bound. ....		1.100.00
1955	Journal of Chemical Physics. Vols. 1-25. Lancaster 1933-1957. Vols. 1-18 are Bound. ....		525.00
2002	Journal of Physical Chemistry. Vols. 1-60 Baltimore 1896-1956. Bound. ....		1.650.00
	TABLES OF PHYSICAL AND CHEMICAL CONSTANTS .....		3.50
2690	Review of Scientific Instruments. Vols. 1-27. Lancaster 1930-1956- Mostly Bound. ....		230.00
		US\$	11.814.00
		=====	

EDITORA INTERCIENCIA PUBLISHERS

Kolthoff-Lingane-POLAROGRAPHY - Volume I .....	US\$	11.00
Volume II .....		12.50
	US\$	23.50
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LISTA DE REAGENTES ORGÂNICOS SEGUNDO CATALOGO Nº 40 DA  
EASTMAN ORGANIC CHEMICALS

<u>Nº</u> <u>de catálogo</u>	<u>Reagente</u>	<u>Quantidade</u>	<u>Preço</u>
468	Acetaldehyde HP 20-22º .....	500 g.	US\$ 6.50
P 2	Acetamide MP 76-78º .....	10 kg.	40.25
3	Acetanilide MP 113-114º .....	1 kg.	5.40
763	Acetic Acid (99.7%) MP 16.6º .....	30 kg.	82.50
4	Acetic Anhydride (99-100%) .....	10 kg.	90.00
297	Acetone BP 55.5-55,8º .....	5 gal.	37.15
S297	Acetone (Spectro Grade) .....	3 l.	12.70
S488	Acetonitrile (Spectro Grade) .....	1 l.	14.15
P488	Acetonitrile (Pract.) BP-80-81.5º .....	3 kg.	8.85
496	Acetophenone MP 19-20º .....	1 kg.	6.95
P334	Acetyl Chloride (Pract.) .....	10 kg.	76.00
1740	Acid Fuchsin (Cert.) .....	25 g.	2.15
2037	Acrolein (Stabilized with Hydroquinone) BP 51-53º .....	500 g.	11.65
			US\$ 394.25



Nº de catálogo	Reagente	Quantidade	Preço	
			US\$	394.25
3588	Acrylic Acid (Stabilized with p-Methoxyphenol) MP 9-11° .....	1 kg.	9.25	
P5161	Acrylonitrile (Pract) HP 73-77°.	3 kg.	6.55	
1645	Adenine Sulfate .....	1 g.	6.15	
1029	Adipic Acid MP 151-153° .....	3 kg.	7.25	
1014	Alizarin MP 285-288° .....	25 g.	2.00	
1051	3-Alizarinsulfonic Acid Sodium salt .....	25 g.	2.15	
518	Allyl Alcohol BP 95.5-97° .....	3 kg.	6.55	
1123	Allylamine BP 52.5-53.5° .....	500 g.	13.00	
P301	Aluminum Chloride (Anhydrous) (Pract) .....	3 kg.	10.50	
1597	2-Aminoethanol. MP 9-10° .....	3 kg.	5.90	
4741	2-Aminopyridine MP 57.5-60° ...	100 g.	5.15	
P568	n-Amyl Alcohol (Pract) .....	5 gal.	36.25	
P18	iso-Amyl Alcohol (active Amyl) Alcohol 10-15%) (Pract) BP 129-132° .....	5 gal.	36.60	
P19	tert.-Amyl Alcohol(Pract) HP100-103° .....	5 gal.	19.30	
571	n-Amylamine BP 102-104° .....	25 g.	5.65	
436	iso-Amyl Nitrite BP 94-96° ....	500 g.	8.15	
25	Anilino MP - 6° .....	10 kg.	16.16	
480	Anthracene MP 216-218° .....	100 g.	9.60	
P480	Anthracene (90-95° .....	1 kg.	8.40	
2189	D-(-)-Arabinose .....	25 g.	9.40	
2026	L-( )-Arabinose MP 154-156° ...	25 g.	4.10	
4640	L-Ascorbic Acid MP 190° dec. ..	500 g.	14.50	
1081	L-Asparagine MP 243° dec. ....	100 g.	6.40	
1010	DL-Aspartic Acid .....	500 g.	8.40	
704	Azobenzene MP 67-68° .....	100 g.	5.40	
30	Benzaldehyde (Chlorine-free) HP 75-76°/16mm. ....	3 kg.	8.35	
777	Benzene (Thiophene-free) MP 5-5.5° .....	5 gal.	29.00	
S777	Benzene (Spectro. Grade)	3 l.	8.25	
P32	Benzenesulfonyl Chloride(Pract.)	3 kg.	7.75	
P2313	Benzenesulfonic Acid (Pract.) .	1 kg.	13.90	
37	Benzoic Acid MP 123-25° .....	1 kg.	5.50	
487	Benzonitrile (Aniline-Free) HP 188-189° .....	1 kg.	21.60	
346	Benzophenone MP 47-48° .....	1 kg.	8.05	
293	Benzoyl Chloride MP -0.5 <sup>oto</sup> 0.5°	4 kg.	6.25	
713	Benzoyl Peroxide MP 105-106° dec.	450 g.	4.05	
			US\$	769.71



Nº. de catálogo	Reagente	Quantidade	Preço
			US\$ 769.71
40	Benzil Alcohol (Chlorine-free) BP 92-94°/8mm. ....	2 kg.	8.40
579	Benzalimine BP-71°/10 mm. ....	500 g.	16.15
721	Biphenyl MP 69.5-70.5° ....	250 g.	2.25
866	Bis (2-chloroethyl) Ether BP 65- 67°/15mm. ....	4 kg	12.60
3319	Biuret MP 192° dec. ....	25 g	2.80
4272	Boron Fluoride Ethyl Ether (Puru- fied) ....	1 kg	6.20
P114	Bromoethane (Pract.) ....	2 kg.	7.30
45	Bromoform (Stabilized with Diphe- nylamine) (D.2.89/20°) MP 7-8° ..	2 kg.	36.70
S45	Bromoform (Spectro Grade) (Stabi- lized with Diphenylamine) ....	200 cc.	10.90
46	1-Bromonaphthalene MP 2-4° ....	100 g.	2.70
P2339	1-Bromopentane (Pract) BP 125-129	1 kg.	8.90
213	2-Bromopropane BP 58-59° ....	1 kg.	6.60
554	3-Bromopropene BP 69-71° ....	500 g.	8.30
4009	2-Bromopyridine BP 78-80°/14 mm.	100 g.	9.20
5922	N-Bromosuccinimide (Pract) MP-173° dec. ....	500 g.	10.10
2658	Brucine Sulfate ....	500 g.	6.10
5566	1,3-Butanediol BP 205-207° ....	3 kg.	4.50
P6526	1,4-Butanediol (Pract) Mp-15-19°.	3 kg.	10.40
P3400	2,3-Butanediol (Prac.) MP 182-184°	3 kg.	4.50
1591	2,3-Butanedione MP-5.5° to -3.5°.	1 kg.	23.90
3182	3-Butenenitrile BP 117-119° ....	500 g.	47.75
T710	n-Butyl Acetate (Techn.) ....	5 :	17.85
50	n-Butyl Alcohol BP 116-118° ....	10 kg.	24.00
303	iso-Butyl Alcohol BP 107-108° ...	10 kg.	17.00
820	tert.-Butyl Alcohol MP 24-25.5° .	10 kg.	13.50
1261	n-Butylamine BP 76-78° ....	1 kg.	6.75
6772	tert.-Butylamine BP 44-45° ....	250 g.	2.25
1507	tert.-Butylbenzene BP 167-5-170. 5° ....	100 g.	6.70
60	n-Butyric Acid MP -7° to -5.5° .	3 kg.	3.60
785	iso-Butyric Acid BP 153-154° ...	3 kg.	5.25
355	Caffeine MP 236-237.5° ....	500 g.	9.05
P441	Calcium Chloride (Anhydrous) (Pract.) ....	10 kg.	23.00
T365	Calcium Cyanamide (Techn.) ....	5 kg.	5.70
587	d-Camphor MP 176-180° ....	1 kg.	6.50
63	d-10-Camphorsulfonic Acid MP 194° dec. ....	500 g.	20.80
600	Carbazole MP 246-247° ....	100 g.	4.45
P5790	Carbon, Decolorizing (Nuohar C190) (pract.) ....	5 kg.	6.15

US\$ 1.188.51



Nº de Catálogo	Reagente	Quantidade	Preço
			US\$ 1.188.51
S444	Carbon Tetrachloride (Spectro Grade)...	3 l.	10.55
P444	Carbon Tetrachloride (Pract) BP 76-77º.	5 gal.	12.40
T5650	Cetyltrimethylammonium Bromide(Techn.).	500 g.	16.50
67	Chloral Hydrate MP 53-56º .....	1 kg.	6.55
1022	Chloramine-T .....	1 kg.	5.45
P68	Chloroacetic Acid (Pract.) .....	1 kg.	6.45
832	Chloroacetophenone MP 54.5-56) .....	100 g.	9.45
P563	p-Chlorobenzaldehyde (Pract.) MP 42-48º	100 g.	2.45
70	Chlorobenzene BP 130-132º .....	4 kg.	3.80
101	1-Chloro-2,4-dinitrobenzene MP 50-52.º.	500 g.	7.85
131	2-chloroethanol BP 127-129º .....	1 kg.	6.00
2561	(2-Chloroethyl)benzene BP 82-84º/16 mm.	500 g.	16.05
S337	Chloroform (Stabilized with Alcohol) (Spectro Grade) .....	3 l.	10.90
4988	1-Chlorohexane BP 132-135º .....	100 g.	6.45
P185	1-Chloro-4-nitrobenzene (Pract.) .....	1 kg.	2.00
6133	1-Chlorooctane BP 181-182º .....	100 g.	5.15
P6151	2-Chlorooctane (Pract.) .....	100 g.	9.50
909	Cholesterol MP 148-150º .....	100 g.	4.45
4952	Cholic Acid MP 200-201º .....	25 g.	2.15
1122	Choline Chloride .....	250 g.	2.60
1720	Cinchonine MP 262-264º .....	100 g.	6.40
75	Trans-Cinnamic Acid MP 132-134º .....	250 g.	3.00
588	Citric Acid .....	4 kg.	8.80
P312	Citronellal (Pract.) BP 87.5-89.5º/11mm	500 g.	9.10
770	Congo Red (Cert.) .....	25 g.	2.15
P81	o-Cresol (Pract.) MP 29-31º .....	4 kg.	5.65
P369	m-Cresol (Pract.) MP 8-10º .....	4 kg.	13.50
P449	p-Cresol (Pract.) MP 28-32º .....	4 kg.	13.80
1878	Crotonaldehyde BP 100-102º .....	500 g.	5.35
1350	Crystal Violet (cert.) .....	25 g.	2.15
1481	Cumene BP 150.5-153º .....	250 g.	2.40
82	Cuperron .....	500 g.	11.50
702	Cyclohexane MP 4-5,5º .....	3 kg.	20.85
703	Cyclohexanol MP 20-22 .....	3 kg.	30.85
S702	Cyclohexane (Spectro Grade) .....	3 l.	27.75
972	Cyclohexanol BP 154-156º .....	1 kg.	4.80
1043	Cyclohexene BP 82.5-83.5º .....	1 kg.	8.90
2496	Cyclohexylamine BP 133-135º .....	250 g.	2.50
2543	Cyclopentanone BP 129-132º .....	500 g.	8.80
667	L-)(-) Cystine .....	100 g.	7.10
P 1905	cis-Decahydronaphthalene (Decalin) (Pract.) BP 190-193.5º .....	1.000 g.	5.20



Nº de Catálogo	Reagente	Quantidade	Preço
			US\$ 1.535.76
999	Dibenzilamine BP 175-176/12 mm. ....	100 g.	3.10
4283	1,4-Dibromobutane BP 194-196º ....	50 g.	2.57
P261	1,3-Dibromopropane (pract) (D.1.960) ..	1 kg.	9.90
342	Dichloromethane (D.1.322/20º BP 39-40º)	4 kg.	4.15
1968	N,N-Diethyformamide BP 177-179º ....	100 g.	6.30
121	Diethyl Malonate BP 94/96º 18 mm. ....	1 kg.	8.90
P6549	Dihydrazine Sulfate (Pract) .....	1 kg.	7.40
94	Dimethylamine Hydrochloride .....	500 g.	7.75
95	p-Dimethyaminobenzalhyde MP 74-75º ...	100 g.	7.50
715	2-Dimethylaminoethanol BP 133-135º ....	1 kg.	7.55
97	N,N-Dimethylamine (Mono-free) MP 1.5-2.5 .....	3 kg.	6.40
1793	N,N-Dimethylbenzylamine BP 179-180º ...	500 g.	19.85
P1793	N,N-Dimethylbenzylamine (pract.) BP 176-181º .....	1 kg.	8.95
5870	N,N-Dimethylformamide BP 152-154º ....	3 kg.	7.25
S5870	N,N-Dimethylformamide (Spectro Grade) .	1 l.	5.15
98	Dimethylglyoxime MP 239º dec. ....	500 g.	9.85
P328	Dimethyl sulfate (pract.) BP 69-70º/10 mm. ....	1 kg.	4.75
99	m-Dinitrobenzene MP 90-92º .....	500 g.	8.25
1608	p-Dinitrobenzene MP 173-175º .....	25 g.	16.25
635	3,5-Dinitrobenzoic Acid MP 203-205º ..	100 g.	6.35
2654	3,5-Dinitrobenzoyl MP 68-69º .....	100 g.	8.55
2144	p-Dioxane MP 10:5-11º .....	3 kg.	11.20
105	Diphenylamine MP 53-55.5º .....	500 g.	9.35
4459	"s-Diphenylcarbazone" MP 154-156 .....	25 g.	6.75
P106	Diphenylmethane (Pract) MP 22-24º .....	250 g.	2.35
3092	Diphenylthiocarbazono .....	100 g.	10.05
4394	Dithiooxamide .....	25 g.	4.30
958	Ethanthiol BP 34.5-35.5º .....	100 g.	4.20
111	Ethyl Acetoacetate BP 58-60º/15 mm ....	1 kg.	7.85
P3159	Ethyl Acrylate (Stabilized with Hydroquinone)(Pract.) BP 98-99º .....	3 kg.	8.90
731	Ethylamine Hydrochloride .....	500 g.	9.20
1915	Ethylendiamine (95-100%) .....	1 kg.	8.95
1005	Ethylene Oxide BP 10:5-11,5º ; .....	50 g.	1.48
S997	Ethyl Ether (Spectro Grade) .....	640 cc.	3.25
P1544	Ferric Chloride (Anhydrous) (Pract.) ..	5 kg.	4.30
780	Fluorescein MP 338º dec. ....	100 g.	3.75
1762	Fuchsin Basic (Cert) .....	25 g.	2.15
583	Fumaric Acid (98+%) .....	500 g.	2.25
140	Furaldehyde BP 59-60º 15mm .....	500 g.	3.15

US\$ 1.805.91



N <sup>o</sup> de catálogo	Reagente	Quantidade	Preço
			US\$ 1.805.91
P1943	Furan (Stabilized) with Hydro quine) (Pract.) HP 31-32 .....	100 g.	3.30
T142	Gallic Acid (Techn) .....	250 g.	2.25
5247	Gelatin (Purified, Pigskin) .....	500 g.	19.50
736	Guanidine Carbonate .....	500 g.	12.85
144	Hexachloroethane MP 185-186° .....	500 g.	6.15
T4763	Hexadecylamine (Techn) .....	1 kg.	4.35
902	Hydrazine (95+%) .....	500 g.	10.20
575	Hydrazine Sulfate .....	500 g.	7.30
1042	Hydriodic Acid (50%) .....	500 g.	6.30
539	Hydrobromic Acid (48%) .....	1 kg.	3.40
356	Hydroquinone MP 172-174° .....	1.000 g.	5.20
985	p-Hydroxibenzaldehyde MP 116-117° ..	500 g.	9.85
340	Hydroxilamine Hydrochloride (Sulfate free) MP 153-155° .....	1.000 g.	18.50
150	Hydroxilamine Sulfate (99+%) .....	1 kg.	7.85
1252	Inositol MP 223-224.5° .....	100 g.	3.40
P1981	Iodine Monochloride (Pract.) .....	100 g.	3.15
1136	p-Iodoaniline MP 62-63° .....	100 g.	12.55
152	Iodobenzene BP 70-71°/12 mm .....	100 g.	6.45
56	1-Iodobutane BP 129-131° .....	500 g.	11.95
119	Iodoethane BP 71-72 .....	500 g.	10.40
P341	Iodoform (Pract) MP 119-122° .....	100 g.	3.55
164	Iodomethane BP 41-43° .....	1.000 g.	21.00
2542	Isoprene BP 33-34° .....	100 g.	6.30
P912	Lactic Acid (85%) (Pract.) .....	500 g.	3.55
933	Lauric Acid MP 42-43° .....	500 g.	7.75
2016	L-(-) Leucine .....	25 g.	2.10
T1980	d-Limonene (Techn) .....	1 kg.	2.65
861	Linalool BP 80-82°/8mm .....	100 g.	4.60
P4820	2,6-Lutidine (90%) (Pract) HP142-144°	250 g.	2.20
4732	L-(+) Lysine Monohydrochloride .....	25 g.	6.20
761	Magnesium (Turnings for Grinard Reaction) .....	1 kg.	4.60
2390	Magnesium Perchlorate (Anhydrous) ..	1000 g.	15.60
T690	Malic Acid (Techn) MP 131-134° ....	2 kg.	4.55
543	L-Malic Acid .....	25 g.	13.70
154	D-(+) Maltose .....	100 g.	3.55
2034	D-(+) Mannose .....	25 g.	4.05
156	1-Menthol (Synthetic MP 42-44°) ....	100 g.	6.35
2249	Mercaptoacetic Acid (80%) in water Anal Grade .....	500 g.	8.80
546	Mesitylene BP 163-166° .....	25 g.	3.55

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 US\$ 2.095.46



Nº do catálogo	Reagente	Quantidade	Preço	
			US\$	2.095.46
353	N-Methylaniline (Aniline and Dimethylaniline-Free) BP 81-82°/14mm .....	250 g.		2.05
S467	Methanol (Spectro Grado) .....	3 l.		15.60
317	Methyl Benzoate BP 110-110°/25 mm .....	500 g.		2.70
573	Methylene Blue (Cert) .....	25 g.		2.15
S1227	Methyl Formate (Spectro Grado) 2-Methylfuran BP 64-66° .....	3 l.		6.15
1767	Methyl Green (Cert) .....	25 g.		2.85
P6760	N-Methylmorpholine (Pract) BP 113-115°.	500 g.		5.40
432	Methyl Orange .....	100 g.		2.70
431	Methyl Red (Cryst.) MP 178-179° .....	25 g.		5.10
466	Methyl Salicylate MP° to 7° .....	500 g.		2.80
T1204	Methyl Stearate (Techn) MP 24-27° .....	500 g.		2.30
1309	Methyl Violet .....	100 g.		3.65
4475	Morin (Techn) .....	500 g.		2.55
P4324	Morpholine (Pract) MP-7° to 5° .....	500 g.		2.75
6373	Murexide .....	1 g.		2.60
168	Naphthalene (Recrist. from Alc.) MP 79-80	1 kg.		8.70
1774	1 - Naphthoic Acid MP 161-163° .....	25 g.		5.35
3264	2 - Naphthoic Acid MP 183-185° .....	25 g.		4.20
170	1 - Naphthoic MP 95-96° .....	500 g.		13.40
171	2 - Naphthol MP 122-123° .....	500 g.		8.70
1768	Naphthol Green B .....	25 g.		2.00
172	1 - Naphthylamine MP 49-50° .....	500 g.		10.20
1680	Nicotinic Acid Hydrochloride MP-273-275°	25 g.		2.00
5534	p-Nitrobenzenesulfonyl Chloride MP 75-77°	100 g.		13.80
S189	Nitromethane (Spectro Grade) .....	1 l.		9.95
191	o - Nitrophenol MP 44-46° .....	100 g.		2.70
979	p - Nitrophenylhydrazine Hydrochloride.	100 g.		7.50
2021	3 - Nitrophthalic Anhydride MP 162-164°	100g.		5.65
6241	5 - Nitrosalicylaldehyde MP 126-127° ..	25 g.		11.40
1124	1 - Nitrose - 2 Naphtol 3, 6 disulfonic Acid Disodium Salt (Pract.) .....	25 g.		2.00
T343	Oleic Acid (93%) (Techn) .....	1 kg.		2.65
1751	Orange G (Cert.) .....	25 g.		2.75
2119	Osmic Acid .....	1 g.		12.60
358	Oxalic Acid MP 99.5 - 101.5° .....	1 kg.		4.85
1213	Palmitic Acid MP 61-62° .....	100 g.		6.45
3462	Pentachlorophenol MP 189-191° .....	100 g.		5.00
599	Phenanthrene MP 97.5-98.5° .....	25 g.		2.00
1269	Phenanthrenequinone MP 206-208° .....	5 g.		3.40
3289	1.10 - Phenanthroline MP 101-103° .....	1 g.		2.00
201	Phenol (Recrystallized) .....	5 kg		31.20

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 US\$ 2.337.26



N <sup>o</sup> de catálogo	Reagente	Quantidade	Preço	
			US\$	2.337.26
202	Phenolphthalein MP 260-261	100 g.	2.00	
541	Phenolsulfonephthalein .....	5 g.	5.25	
678	o-Phenylenediamine Dihydrochloride ...	100 g.	5.05	
206	m-Phenylenediamine Dihydrochloride ...	500 g.	12.50	
207	p-Phenylenediamine Dihydrochloride ...	500 g.	16.15	
104	Phenyl Ether MP 26-27 <sup>o</sup> .....	500 g.	2.80	
329	Phenylhydrazine MP 18-19 <sup>o</sup> .....	500 g.	8.30	
553	Phenyl Isocyanate BP 55-56 <sup>o</sup> /13mm .....	500 g.	7.75	
1484	Phenyl Isothiocyanate BP 99-100 <sup>o</sup> /15mm.	500 g.	10.90	
1475	Phenylurea MP 147-148 <sup>o</sup> .....	100 g.	7.50	
493	Phloroglucinol MP 217-218 <sup>o</sup> .....	25 g.	2.70	
P2079	Phosphomolybdic Acid (Pract.) .....	100 g.	5.00	
470	Phosphorus Pentachloride (Pract.) ....	1 kg.	4.70	
P1316	Phosphorus Pentasulfide (Pract.) .....	3 kg.	6.40	
1354	Phosphorus Tribromide BP 172-174 <sup>o</sup> ....	1000 g.	10.40	
B471	Phosphorus Trichloride (Pract.) .....	1 kg.	5.15	
P629	Phosphoryl Chloride (Pract.) MPO-2 ...	1 kg.	4.95	
1460	Phosphotungstic Acid .....	100 g.	6.75	
454	Phthalic Acid MP 206-208 <sup>o</sup> dec. ....	1 kg.	6.00	
331	Phthalic Anhydride MP 131-132 <sup>o</sup> .....	2 kg.	4.10	
208	Phthalimide MP 232-234 <sup>o</sup> .....	500 kg.	9.80	
1347	Phthalimide Potassium Salt .....	500 kg.	13.85	
2732	4 - Picoline BP 143-145 <sup>o</sup> .....	100 g.	4.15	
395	Picramic Acid MP 169-171 <sup>o</sup> .....	100 g.	4.00	
210	Picric Acid MP 121-122 <sup>o</sup> .....	500 g.	24.50	
827	Picryl Chloride MP 80-81 <sup>o</sup> .....	100 g.	15.90	
P806	Pinone (Pract.) BP 158-161 <sup>o</sup> .....	1 kg.	7.90	
P687	Piperidine (Pract.) BP 98-108 <sup>o</sup> .....	500 g.	7.50	
332	Pottasium Cyanate .....	500 g.	9.45	
2723	Potassium Periodate (Meta) .....	100 g.	4.20	
1535	1-Propanethiol BP 67-68 <sup>o</sup> .....	100 g.	9.05	
396	Propionic Acid BP 140-142 <sup>o</sup> .....	3 kg.	4.05	
1193	iso-Propyl Ether (Alcohol-free) BP 67-69 <sup>o</sup> .....	1 kg.	9.95	
214	Pyridine BP 113. 5-115 5 <sup>o</sup> .....	3 kg.	26.70	
S214	Pyridine (Spectro Grade) .....	1 l.	13.30	
H214	Pyridine (For Karl Fisher Reagent) ...	1 kg.	6.70	
604	Pyrocatechol MP 104-106 <sup>o</sup> .....	100 g.	3.20	
215	Pyrogallol Mp 131-133 .....	500 g.	6.70	
P1332	Pyrrolidine (Pract.) BP 85-87 <sup>o</sup> .....	100 g.	2.60	
498	Pyruvic Acid MP 8-12 <sup>o</sup> .....	100 g.	5.40	
2787	Quianlizarin .....	5 g.	3.15	
3806	Reineck Salt .....	100 g.	6.10	

US\$ 2.669.76



№ de catálogo	Reagente	Quantidade	Preço	
			US\$	
			US\$	2.669.76
222	Resorcinol MP 109-110° .....	500 g.		9.20
P4453	Rhodamine B (Pract.) .....	100 g.		3.45
225	Salicylaldehyde (from Bisulfite Compound Compound) MP 1-2° .....	500 g.		15.00
P225	Salicylaldehyde (Pract.) .....	1 kg.		7.30
359	Salicylic Acid MP 159-161 .....	3 kg.		9.05
612	Sebacic Acid MP 132-133° .....	500 g.		8.25
P2352	Sodium Azide (Pract) .....	500 g.		5.40
P2394	Sodium Nitroprusside (Pract.) .....	500 g.		9.95
402	Stearic Acid MP 68-69.5° .....	100 g.		5.30
237	Succinic Acid MP 186-188 .....	3 kg.		10.75
1754	Sudan III (Cert.) .....	25 g.		2.15
238	Sulfanilic Acid (Chlorine-free) .....	1 kg.		7.35
P422	Tannic Acid (Pract) .....	100 g.		2.25
420	d-Tartaric Acid MP 169-171° .....	500 g.		2.60
S2418	Tetrachloroethylene (Stabilized with Thymol) .....	1 l.		15.10
1516	Tetraethylammonium Bromide .....	500 g.		5.75
2434	Tetramethylammonium Iodide .....	500 g.		17.55
246	Thionyl Chloride BP 75-76° .....	3 kg.		34.65
1860	Thiophene BP 83-85° .....	100 g.		2.55
1275	Thiosemicarbazide MP 180-181° dec. ..	500 g.		15.20
497	Thiourea (Alcohol-soluble) MP 171-175°	1 kg.		11.90
248	Thymol MP 50-51° .....	100 g.		2.40
1091	Thymolphthalein MP 252-254° .....	25 g.		3.00
753	Thymolsulfonephthalein .....	5 g.		5.25
P523	p-Toluenesulfonyl Chloride (Pract.) ..	3 kg.		5.30
253	o-Toluidine (from Nitrate) BP 83-85°/ 15mm .....	500 g.		6.85
862	m-Toluidine BP 92-93°/15 mm .....	100 g.		2.00
254	p-Toluidine MP 43-45° .....	500 g.		6.15
P1266	Tri-butylamino (Pract.) BP 93-100°/17mm	1 kg.		5.30
259	Trichloroacetic Acid (Sulfate free, Iron free) MP 54-57° .....	500 g.		7.65
616	Triethylamine BP 88-90° .....	3 kg.		8.65
276	o - Xylene MP - 25° to -23° .....	1 kg.		4.70
275	m - Xylene BP 138 - 139° .....	500 g.		9.85
277	p - Xylene MP 12-13° .....	3 kg.		12.95
P521	Sine Dust (Pract.) .....	4 kg.		5.35
89	p-Dichlorobenzene MP 53-54 .....	1 kg.		2.35
92	Diethylamine BP 55-56° .....	500 g.		2.65
654	Diethyl Carbonate BP 125-126-5 .....	3 kg.		8.65

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US\$ 2.969.51



## LISTA DE REAGENTES ORGANICOS SEGUNDO CATALOGO Nº 40 DE "SOLVENTS"

## IN 5 - GALLON DRUMS

Nº de catálogo	Reagentes	Quantidade	Preço
			US\$ 2.969.51
297	Acetone HP 55.5-55.8° .....		37.15
P 298	iso-Amyl Acetate (Pract.) BP 125-140°..		20.65
P 568	n-Amyl Alcohol (Pract.) BP 134-137° ...		36.25
P18	iso-Amyl Alcohol (active Amyl Alcohol 10-15% (Pract.) 129-132 .....		36.60
P19	tert.-Amyl Alcohol (Pract.) BP 100.103°		19.30
25	Aniline MP - 6° .....		24.30
777	Benzene (Thiophene-free) MP 5-5.5° ....		29.00
383	2-Butanone HP 79-80° (Methyl Ethyl Keto ne) .....		15.10
T710	n-Butyl Acetate (Techn) BP 118-124° ...		17.85
50	n-Butyl Alcohol BP 116-118° .....		32.25
303	iso-Butyl Alcohol BP 107-108° .....		21.60
943	sec.-Butyl Alcohol BP 98-100° .....		15.60
820	Tert. Butyl Alcohol MP 24-25.5° .....		15.70
444	Carbon Tetrachloride (Sulfu-free) HP76. 1-76.3 .....		45.95
70	Chlorobenzene BP 130-132° .....		15.30
P702	Cyclohexane (Pract.) BP 78-81° .....		13.20
703	Cyclohexanol MP 20-22° .....		30.85
P972	Cyclohexanone (Pract.) .....		35.05
132	1,2 - Dichloroethane HP 83-84° (Ethyle- ne Chloride) .....		27.45
342	Dichloromethane (D.1322/20°) HP 39-40°. (Methylene Chloride) .....		19.30
5870	N.N.-Dimethylformamide HP 152-154° ....		37.05
P2144	p-Dioxane (Pract.) Stabilized with p-Benzylaminophenol) MP 9-11° .....		32.15
133	Ethylene Glycol HP 195-197° .....		20.35
300	Ethyl Acetate (99%) BP 76-77° .....		12.20
339	Glycerol .....		38.35
467	Methanol (Acetone-free) HP 64.5.6 5° ..		61.90
P520	Methyl Acetate (98%) (Pract.) BP 54-56°		16.40
P1599	2,2' 2'' - Nitrilotriethanol (95+%) (Pract.) (Triethanolamine) .....		30.25
387	Nitrobenzene MP 5-6° .....		19.45
P189	Nitromethane (Pract.) .....		47.70
P66	2-Octanol (Pract.) BP 177-180° (Capryl Alcohol) .....		23.85
P2041	2, 2' - Oxydioethanol (Pract.) (Diethyle ne Glycol) .....		24.35
848	n-Propyl Alcohol BP 96-98° .....		15.55

US\$ 3.857.51



Nº de catálogo	Reagentes	Quantidade	Preço US\$
			3.857.51
212	iso-Propyl Alcohol (98-99%) .....		10.85
1465	Styrene (Stabilized with tert. Butylpy- rocatechol BP 33-35°/8mm .....		24.90
5308	Tetrahydrofuran BP 65-66° .....		35.30
325	Toluene (Sulfur-free) BP 109.5-110.5° .		58.55
1300	Trichloroethylene BP 86-87° .....		23.70
P276	o-Xylene (95%) (Pract.) .....		29.75

S U G A R S

2189	D-(-) - Arabinose .....	5 g.	2.60
2026	L-(+) - " .....	10 g.	2.20
679	Fructose .....	100 g.	2.85
141	D-(+)-Galactose (Anhydrous) .....	100 g.	3.85
84	D-Glucose (Anhydrous) .....	500 g.	2.00
357	α-Dactose .....	500 g.	2.25
154	D-(+)-Maltose .....	100 g.	3.55

AMINO ACIDS

2475	L-(+)-Arginine Monohydrochloride .....	10 g.	2.60
1081	L-Asparagine .....	25 g.	2.20
951	Creatine .....	10 g.	3.15
918	Creatinine .....	10 g.	4.25
2367	Cysteine Hydrochloride .....	25 g.	3.35
667	L-(-) Cystine .....	25 g.	2.35
1466	L-(+) - Glutamic Acid .....	100 g.	2.15
445	Glycine .....	250 g.	3.00
4274	L-(+) - Histidine Monohydrochloride ...	10 g.	2.60
2016	L-(-) - Leucine .....	25 g.	2.10
2476	L-(+) - Lysine Dihydrochloride .....	5 g.	3.05
4618	DL-Serine .....	5 g.	2.05
4619	DL-Threonine .....	1 g.	2.15
2025	L-(-) - Tryptophane .....	1 g.	2.00
666	L-(-) - Tyrosine .....	25 g.	2.00
1678	DL-Valine .....	25 g.	2.70

US\$ 4.101.56  
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TOTAL GERAL DA LISTA "A" - US\$ 16.070.96  
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UNIVERSIDADE DA BAHIA

FACULDADE DE FARMACIA

PEDIDO PARA A CADEIRA DE QUÍMICA BIOLÓGICA

Lista "A"

ARTHUR H. THOMAS CO., PHILADELPHIA 5, PA - USA

1	Turner Fluorometer, complete outfit for 115 Volts 50 or 60 cycles, a.c. ....	US\$	985,00
6	Square Cuvettes for the Turner Fluorometer (10,00 each) .....		60,00
1	Glass electrode pH meter, model H2, Beckman N <sup>o</sup> 8500 (reference n <sup>o</sup> 4923-B) .....		240,00
1	Electrophoresis Apparatus, paper strip - model A. H.T. (reference n <sup>o</sup> 4937-W5) .....		375,00
1	Densigraph (Recording densitometer) A.H.T. (ref. n <sup>o</sup> 4937-X) .....		475,00
1	Densigraph Graph paper, A.H.T. (reference n <sup>o</sup> 4937-X5) .....		375,00
1	Quartz spectrophotometer, Photoelectric, Beckman Model DU (reference n <sup>o</sup> 9101-B4) .....		2.290,00
1	Battery Power regulator, Beckman n <sup>o</sup> 14500 (ref. n <sup>o</sup> 9101-D2) .....		164,50
1	Balance, Analytical, Single Pan, Type S (ref. n <sup>o</sup> 1867-F) .....		895,00
1	Centrifuge refrigerated portable - Model PR2 (reference n <sup>o</sup> 3190C) .....		1.993,00

GRASS COMPANY, QUINCY, MASSACHUSETTS

Grass 2 channel Polygraph:

1	Polygraph 2 channel case .....	350,00
2	Drivel amplifiers .....	280,00
2	Oscillagrophes .....	400,00
2	Low level d.c. amplifiers .....	450,00
2	FT 10 strain gauges .....	230,00
2	FT 3 strain gauges .....	230,00
2	Pressure gauges .....	280,00
	Charge for adjustment of paper speed .....	100,00
12	Boxes paper for the Polygraph (approx.) .....	24,00

APARELHOS PARA A CADEIRA DE MICROBIOLOGIA

Contador de Quebec, 4093-K .....	106,00
Estufa refrigerada, 1470 .....	500,00
Centrífuga refrigerada, 3190-F .....	2.500,00
Tubos de Thunberg, 9762-J .....	9,45

Total... 13.311,95

Contador de Q

Estufa refri