

DEPARTMENT OF PHARMACOLOGY

Sl. No.	Name of the Items	Pack size acceptable	No. of Units Reqd.	Rate must be quoted per unit given below
CHEMICALS				
1	Acetyl Choline Chloride	5 gm	5gm x 5	per gm
2	Atropine Sulphate Power	5 gm	5gm x 2	per gm
3	Diethyl Ether - AR grade	500 ml	500ml x 20	per ml
4	Isoprenaline Hydrochloride	5 gm	5gm x 1	per gm
5	Noradrenaline	1 g	1g x 2	per gm
6	Physostigmine (Eserine)	1gm	1gm x 1	per gm
7	Sodium Salicylate	500 gm	500gm x 1	per gm
8	Ethanol – AR grade	500ml	500ml x 60	per ml
9	Potassium Dichromate – AR grade	500 gm	500gm x 2	per gm
10	Strychnine - HCL grade	1 gm	1gm x 1	per gm
11	Histamine Dihydrochloride	5 gm	5gm x 2	per gm
12	Phenylephrine Powder	5 gm	5gm x 2	per gm
13	Ephedrine - HCL grade	5 gm	5gm x 2	per gm
14	Ethyl Acetate – AR grade	1 lit	1 lit x 10	per lit
15	Formaldehyde – AR grade	1 lit	1 lit x 5	per lit
16	Sodium Citrate	100 gm	100gm x 1	per gm
17	Benzene	500 ml	500ml x 6	per ml
18	Acetic Acid – AR grade	2.5 lit	2.5 lit x 2	per lit
19	Liquid Paraffin	500 ml	500ml x 2	per ml
20	d-Tubocurarine	5 gm	5gm x 1	per gm
21	Aconitine	5 gm	5gm x 1	per gm
22	Carbachol – AR grade	25 gm	25gm x 1	per gm
23	Sodium Bicarbonate – AR grade	500 gm	500gm x 7	per gm
24	Magnesium Sulphate – AR grade	500 gm	500gm x 3	per gm
25	Magnesium Chloride – AR grade	500 gm	500gm x 3	per gm
26	Calcium Chloride – AR grade	500 gm	500gm x 3	per gm
27	Potassium Chloride – AR grade	500 gm	500gm x 3	per gm
28	O-xylene – AR grade	500 ml	500ml x 4	per ml
29	Potassium Permanganate	500 gm	500gm x 2	per gm
30	n-hexane	2.5 lit	2.5 lit x 4	per lit

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31	Neutral Alumina/Aluminium Oxide – AR grade	500 gm	500gm x 10	per gm
32	Silica Gel (TLC) - AR grade	500 gm	500gm x 2	per gm
	HPLC REAGENTS			
33	Acetonitrile - HPLC grade	2.5 lit	2.5 lit x 10	per lit
34	Chloroform - HPLC grade	1 lit	1 lit x 7	per lit
35	Dichloro Methane - HPLC grade	2.5 lit	2.5 lit x 5	per lit
36	Hexane - HPLC grade	1 lit	1 lit x 2	per lit
37	Isopropyl Alcohol - HPLC grade	1 lit	1 lit x 1	per lit
38	Methanol - HPLC grade	2.5 lts	2.5 lit x 50	per lit
39	Toluene - HPLC grade	2.5 ltrs	2.5 lit x 10	per lit
	SIGMA & FLUKA CHEMICALS			
40	Carbamazepine - Drug (powder)	1 gm	1gm x 2	per gm
41	Corticosterone	1 gm	1gm x 1	per gm
42	Hydro corticosterone	1 gm	1gm x 1	per gm
43	Hydroxyphenyl-5pheny-hydroxtoin HPPH	1 gm	1gm x 2	per gm
44	Phenobarbitone	10 gm	10gm x 1	per gm
45	Phenytoin	5 gm	5gm x 2	per gm
46	Nonanoic Acid (Pelargonic Acid)	25gm	25gm x 1	per gm
47	Valproic Acid Sodium Salt (Sodium Valproate)	25gm	25gm x 1	per gm
48	4-bromophenacyl bromide (2-4'-dibromoacetophenone)	50gm	50gm x 1	per gm
49	dicyclohexane-18-crown-6	25gm	25gm x 1	per gm
50	5-ethyl-5para-tolybarbituric Acid	25gm	25gm x 1	per gm
	MOLECULAR BIOLOGY GRADE			
51	Acryiamide / Bis acrylamide 40% solution	100 ml	100ml x 50	per ml
52	Agarose - Low Melting Point	500 gm	500gm x 10	per gm
53	EDTA Disodium Salt	100 gm	100gm x 5	per gm

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54	Octanol	500 ml	500ml x 2	per ml
55	Phenol Solution Equilibrated	500 ml	500ml x 4	per ml
56	Proteinase Klyophilise Powder	100 mg	100mg x 1	per mg
57	Tris Buffer	100 gm	100gm x 25	per gm
	GLASSWARES (Borosil or Equivalent make)			
58	Test Tube - 10 ml		100 Nos.	each
59	Beaker – 100ml		30 Nos.	each
60	Beaker – 250ml		20 Nos.	each
61	Beaker – 500ml		10 Nos.	each
62	Beaker – 1000ml		25 Nos.	each
63	Funnel - 6 inches		10 Nos.	each
64	Funnel - 3 inches		10 Nos.	each
65	Measuring Jar with Stopper – 10 ml		5 Nos.	each
66	Measuring Jar with Stopper – 100 ml		5 Nos.	each
67	Measuring Jar with Stopper – 250 ml		5 Nos.	each
68	Measuring Jar with Stopper – 500 ml		5 Nos.	each
69	Measuring Jar with Stopper – 1000 ml		10 Nos.	each
70	Pasteur Pipette - 20cm x 0.8cm		250 Nos.	each
71	Petri Dish Big – 150 x 20mm		10 Nos.	each
72	Centrifuge Tube - 11cm x 1.5cm		250 Nos.	each
73	Screw Capped Tube - 12 x 1 cm		100 Nos.	each
74	Conical Flask 100ml		100 Nos.	each
75	Graduated Pipette - 10ml		20 Nos.	each
76	Graduated Pipette - 5ml		20 Nos.	each
77	Graduated Pipette - 1ml		10 Nos.	each
78	Micro Centrifuge Tube - 2ml		1000 Nos.	each
79	Tissue Bath – 25 ml		10 Nos.	each
80	Desicator – 4 litre capacity		2 Nos.	each
81	Tubercullin Syringe		10 Nos.	each

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82	Measuring Cylinder with reading- 1 litre capacity		5 Nos.	each
	OTHERS			
83	Bull Dog Clamp - small size		10 Nos.	each
84	Frog Board for Dissection – Size : 8" x 8"		20 Nos.	each
85	Frog pitting needle		10 Nos.	each
86	Rat Holder		5 Nos.	each
87	Plain Simple Lever for Kymograph		10 Nos.	each
88	Plain Frontal Lever for Kymograph		10 Nos.	each
89	Bone cutter – 6’ size, S.S. make		2 Nos.	each
90	Rubber tube - 0.5cm diameter		15 mtrs.	per mtr
91	Rubber tube - 0.6cm diameter		15 mtrs.	per mtr
92	Rubber tube - 0.8cm diameter		10 mtrs.	per mtr
93	Enamel tray - 15 x 22.5 cms		10 Nos.	each
94	Measuring Cylinder with reading (Plastic) – 1 litre capacity		5 Nos.	each
95	Plastic Test Tube Rack - 4 x12 holes		10 Nos.	each
96	Screw Caped Plastic Tubes (2ml storage vials)		2000 Nos.	each
97	Filter Paper Sheet (ordinary)		500 Nos.	each
98	Tissue Paper		300 Rolls	per roll
99	Aluminium Foil	25gm	100 Nos.	per gm
100	Aerator		10 Nos.	each
101	Pulls for Isolated Heart Experiments		20 Nos.	each
102	Rat Restrainer – for Non Invasive Blood Pressure System		2 Nos.	each
103	Heating Mantle, size: 1000ml		1 No.	each
104	Heating Mantle, size: 500ml		1 No.	each
105	Heating Mantle, size: 250ml		1 No.	each
106	Animal Cage with Lid – Medium		10 Nos.	each

Sl. No.	Name of the Items	Pack size acceptable	No. of Units Reqd.	Rate must be quoted per unit given below
107	Animal Cage with Lid – Small		10 Nos.	each
108	Animal Cage Fasting Tray – Medium		10 Nos.	each
109	Animal Cage Fasting Tray – Small		10 Nos.	each
110	Laboratory Animal Feeding Bottle (Plastic) , size: 250ml		50 Nos.	each
111	Metabolic Cages for Rats (Aluminium)		5 Nos.	each
112	Measuring Cylinder with reading, size: 1 lit		5 Nos.	each
113	Burette Stand		15 Nos.	each
114	Laboratory Stop Watch – Digital		10 Nos.	each
115	Test Tube Rack (Plastic) – 6 x 12 holes		5 Nos.	each
116	Scissor – Size : 5½”, straight		20 Nos.	each
117	Scissor – Size : 7½”, straight		20 Nos.	each
118	Scissor – Size : 5½”, curved		20 Nos.	each
119	Artery forceps– Size : 5½”		20 Nos.	each
120	Artery forceps– Size : 7½”		20 Nos.	each
121	Retractor(Chung Weitlaner), prong lewngth 25mm – Blunt tip		3 Nos.	each
122	Retractor(Chung Weitlaner), prong lewngth 25mm – Sharp tip		2 Nos.	each
123	Kidney Tray		20 Nos.	each
124	Plastic Tray – 30 x 25 cm		20 Nos.	each
	HPLC COLUMNS (Zorbox, Waters, Phenomenex)			
125	HPLC analytical column ODS (c18) 5 micron Length : 250mm, I.D : 4.6mm, Particle : 5 micron		5 Nos.	each
126	HPLC guard column ODS (c18) 5 micron		5 Nos.	each

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	COMMON ITEMS (Required for more than one Dept.) (CHEMICALS)			
127	Potassium dihydrogen phosphate - AR grade	500 gm	500gm x 1	per gm
128	Nitric Acid – AR grade	1 lit	1 lit x 2	per lit
129	Calcium carbonate - AR grade	500 gm	500gm x 2	per gm
130	Dextrose anhydrous - AR grade	500 gm	500gm x 10	per gm
131	Ortho phosphoric acid - AR grade	1 lit	1 lit x 2	per lit
132	Acetone - AR grade	1lit	1 lit x 35	per lit
133	Sulphuric acid - AR grade	1 lit	1 lit x 10	per lit
134	Sodium Hydroxide - AR grade	500gm	500gm x 1	per gm
135	Teepol	10 lit	10 lit x 5	per lit
	MICROPIPETTES			
136	Micropipette (10-50 microlitre)		2 Nos.	each
137	Micropipette (200 - 1000 microlitre)		3 Nos.	each
138	Micropipette (50 - 200 microlitre)		1 No.	each
139	Tips for micropipettes (2 - 200 microlitre)		5000 Nos.	each
140	Tips for micropipettes (200-1000microlitres)		5000 Nos.	each
141	Filter Tips (0.5 to 50 microlitres)		2000 Nos.	each
142	Filter Tips (1 to 200 microlitres)		2000 Nos.	each
	CELL CULTURE LABORATORY			
143	Trypsin – EDTA Solution	100 ml	100ml x 20	per ml
144	MEM – Non-Essential Amino Acid (100 X solution)	100 ml	100ml x 20	per ml
145	Penicillin – Streptomycin, antimycotic solution	100 ml	100ml x 10	per ml
146	Dulbecco's Phosphate buffered saline (without calcium and magnesium salts)	10 lit	10 lit x 10	per lit
147	Dulbecco's modified essential	500 ml	500ml x 30	per ml

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	medium (supplemented with sodium bicarbonate, sodium pyruvate, D-Glucose & L-Glutamine)			
148	Serological Pipette, sterile, graduation 1/100, disposable, size: 1ml		100 Nos.	each
149	Serological Pipette, sterile, graduation 1/100, disposable, size: 2ml		100 Nos.	each
150	Serological Pipette, sterile, graduation 1/100, disposable, size: 5ml		100 Nos.	each
151	Serological Pipette, sterile, graduation 1/100, disposable, size: 25ml		100 Nos.	each
152	Tips. DNAase, RNAase free, size: 5ml		5000 Nos.	each
153	Storage bottles, graduated, clear with PP screw cap and PP pouring ring (blue), autoclavable upto 140°C , size: 50ml		10 Nos.	each
154	Storage bottles, graduated, clear with PP screw cap and PP pouring ring (blue), autoclavable upto 140°C , size: 100ml		10 Nos.	each
155	Storage bottles, graduated, clear with PP screw cap and PP pouring ring (blue), autoclavable upto 140°C , size: 250ml		10 Nos.	each
156	Storage bottles, graduated, clear with PP screw cap and PP pouring ring (blue), autoclavable upto 140°C , size: 500ml		10 Nos.	each
157	Storage bottles, graduated, clear with PP screw cap and PP pouring ring (blue), autoclavable upto 140°C , size:		10 Nos.	each

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	1000ml			
158	Fetal Bovine Serum	100 ml	10 Nos.	per ml

EQUIPMENTS

Sl. No.	Name of the Items	No. of Units Reqd.	Rate must be quoted per unit given below
1	Laboratory Refrigerator	2 Nos.	each
	<u>Specification:</u>		
	1) Capacity: approx. 340 liters		
	2) Temperature range: adjustable range between 2°C- 12°C ± 1°C		
	3) Digital temperature indicator–cum controller		
	4) Audio-visual alarm to indicate variation of temperature beyond the set level		
	5) S.S. still inner chamber with adjustable shelves (4 to 5 Nos.)		
	6) Plexi glass door		
	7) Stabilizer required		
	8) Digital temperature recording chart paper		
	9)Power supply: 220-240V		
	10)Recording chart paper required		
11)Warranty: 2 years from the date of installation			
2	Student Light Microscope	2 Nos.	each
	<u>Specification :</u>		
	1) Coarse & Fine focus		
	2)10x, 100x, 400x magnification		
	3) Eyepiece pointer		
4)Moveable Abbe condenser			

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	5) 6-position disk diaphragm 6) Bright white LED illumination 7) Bulb life of 100,000 hours 8) Rechargeable NiHM battery 9) Teaching head & mechanical stage available 10) Blank Slides & Cover Slips: required 100 numbers 11) Warranty: 2 years from the date of installation		
3	Simple Distillation Unit <u>Specification :</u> 1) Simple water condenser (40 cm length)- 2 Nos. 2) 100ml & 500ml round bottom flask 2 Nos. each. 3) Round bottom flask and water condenser connecting tubes- 5 sets 4) 500 ml & 1 lit Flat bottom flasks - 2 Nos. each	1 No.	each
4	Laboratory Room Thermometer (Plastic) <u>Specification :</u> 1) Wet and dry temperature indicator 2) Thermometer may / may not have digital monitor 3) Thermometer should indicate temperature in Celsius and Fahrenheit 4) Range -10 to 50°C with 0 to 120°F 5) Warranty: 2 years from the date of installation	6 Nos.	each
5	UPS – 3kVA <u>Specification :</u> 1) 3 hrs. backup 2) Input Main : 145v to 280v 3) Output : 210v / 230v \pm 2% 4) Frequency : 50 / 60 \pm 5% 5) Recharge : 8 to 9 %	2 Nos.	each

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	6)Warranty: 2 years from the date of installation		
6	Surgical Table for Animal	4 Nos.	each
	<u>Specification :</u>		
	1) Rotatable at 360°		
	2) Size: approx. 1 X 1 foot		
	3) Should have thermostatic control		
7	Student Physiograph – Digital	3 Nos.	each
	<u>Specification :</u>		
	1)Student physiograph main unit		
	2) Pressure transducer- 2 Nos.		
	3) Variable force transducer- 2 Nos.		
	4)Warranty: 2 years from the date of installation		
8	Micro Centrifuge	2 Nos.	each
	<u>Specification :</u>		
	1) Rotors to hold 6x1.5/2.0 ml tubes		
	2) Max. speed: 10000 rpm		
	3) Low noise level (quite operation)		
	4) Digital display of time & rpm		
	5)Warranty: 3 years from the date of installation		
9	Vortex Mixer	2 Nos.	each
	<u>Specification :</u>		
	1) Operating mode: Sensor & Continuous		
	2) Speed range: 0-3000 rpm		
	3) Electronic speed control		
	4) Low noise level		
	5) Accesory attachment to vortex various tube sizes and microtitre plates		
	5)Warranty: 3 years from the date of installation		
10	Vacuum Pump	1 No.	each
	<u>Specification :</u>		
	1) Maximum vacuum: 600mmHg		
	2) Maximum pressure: 25PSI		

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	3) Vacuum: 22 l/mm 4) Motor rotation: 1450rpm 5) Pole: 4P 6) Net weight: 4 to 5kg 7) Power supply: 220v 8) Materials for valves & diaphragm: PTTE and or FFPM 9) Warranty: 2 years from the date of installation		
11	Wall Clock – Digital <u>Specification</u> 1) Should have time in 12h and 24 h format. 2) Should have separate display for date 3) Should have separate display for room temperature indicator 4) Warranty: 2 years from the date of installation	10 Nos.	each