

Department of Biotechnology  
VISVA-BHARATI

**Ref No. VB-BT/Practical grant/2017-2018/Consumables/01, dated 16-01-2018**

<b>LAST DATE OF SUBMISSION</b>	<b>06-02-2018</b>
<b>HOURS (I.S.T)</b>	F.N.

Dear Sir,

Please quote your lowest rates for the following items so as to reach to the **Head, Department of Biotechnology, Siksha Bhavana, Visva-Bharati, Santiniketan- 731235** on or before the date and time noted above. *Please see terms & conditions as mentioned below, which are essential, the failure in compliance of which may lead to rejection of the quotation.*

**Chemicals:**

SI No	Items	Qty
1.	Human Inflammatory Cytokine Kit (RUO), flow cytometry based, 80 rxn	1kit
2.	FITC Mouse Anti-Human CD44, 0.1mg	1pk
3.	AbFlow (Sheath fluid), 1lit	10 bottle
4.	Triple Peptide Affinity Purification (LANA)	1pk
5.	Double Peptide Affinity Purification (EBNA3C)	1pk
6.	FITC Annexin V apoptosis detection kit-II, Part-A & B, 100 test	1kit
7.	Human B Lymphocyte isolation kit (compatible to IMag or StemSep magnet)	1kit
8.	Liquid nitrogen	125lit
9.	25-Hydroxyvitamin D3 monohydrate, $\geq 99.0\%$ (HPLC), 1MG	1 vial
10.	PureLink™ RNA Mini Kit.50 reaction	1kit
11.	RPMI 1640 high glucose, GlutaMAX or stable glutamine. phenol red, without pyruvate, HEPES, 500ml	10 bottle
12.	Methanol HPLC grade, 1lit	10 bottle
13.	Hahnemann's original dilution Bryonia alb (30) alcohol 91% v/v, 450ml	10 bottle
14.	Teaching kit Antigen-Antibody precipitation assay	1 kit × 1
15.	Teaching kit Competitive ELISA	1 kit × 1
16.	Teaching kit Immunoglobulin purification	1 kit × 1
17.	Teaching kit Ouchterlony Double diffusion (antibody titer)	1 kit × 1
18.	Teaching kit Ouchterlony Double diffusion (antigen antibody pattern)	1 kit × 1
19.	Teaching kit Single radial immunodiffusion	1 kit × 1
20.	Fetal Bovine Serum (South American Origin, E.U, Heat Inactivated, Sterile Filtered), 500ml	500 ml × 2
21.	3,3',5,5' Tetra-methyl Benzidine (TMB) Liq.	100 ml × 5
22.	Glycine (for Electrophoresis, $\geq 99\%$ )	1 kg
23.	M199 Media powder (w L-glutamine, 25mM HEPES, w/o Sod bicarbonate)	(1L × 10) × 1
24.	RPMI-1640 powder (w L-glutamine, 25mM HEPES, w/o Sod bicarbonate)	(1L × 10) × 1
25.	DMEM powder (w 4.5 g Glucose/L, L-glutamine, 25mM HEPES, w/o Sod bicarbonate, Sod pyruvate)	(1L × 10) × 1
26.	Acrylamide (suitable for electrophoresis 99%)	500 gm × 1

27.	Trypsin-EDTA solution (0.25%)	500 ml × 1
28.	Sodium bicarbonate (Cell Culture tested)	500 gm × 1
29.	H <sub>2</sub> O <sub>2</sub> solution 30%	500 ml × 1
30.	Dimethyl sulfoxide (DMSO) GR	500 ml × 1
31.	FACS Clean	5 L × 1
32.	Acetic acid glacial (99-100%)	500 ml × 1
33.	SDS (suitable for electrophoresis, for molecular biology)	500 gm × 1
34.	Tris base (hydroxymethyl) aminomethane (cell culture tested)	500 gm × 1
35.	Methanol AR	2.5 L × 1
36.	Amido Black Staining Solution	100 ml × 1
37.	Calcium Chloride, dihydrate (for molecular biology)	500 gm × 1
38.	Chloroform GR	500 ml × 1
39.	Aceto orcein, Lq, for microscopy	100 ml × 1
40.	FITC Annexin V apoptosis detection kit, with purified Annexin V	1 kit × 1
41.	EDTA, di sodium salt, dihydrate (AR)	100 gm × 1
42.	Ethanol (Rectified)	500 ml × 12
43.	Sodium Carbonate anhydrous (A.R)	500 gm × 1
44.	Sodium chloride (AR)	500 gm × 1
45.	Glycerol 98%	500 ml × 1
46.	Hisep LSM 1077	100 ml × 6
47.	Ortho-phosphoric acid min-88% (GR)	500 ml × 1
48.	Sodium bicarbonate purified	500 gm × 1
49.	Trypan-Blue (0.5% solution, Sterile)	100 ml × 1
50.	Xylene (GR)	500 ml × 1
51.	Agarose Special, low EEO	100 gm × 1
52.	EMAPARTA ACS Chloroform for analysis, 2.5 lit	3
53.	EMPARTA ACS Benzene for analysis, 2.5 lit	3
54.	EMPARTA Ammonia solution 25% for analyses, 500ml	3
55.	Pro analysi Dimethyl sulfoxide (DMSO) GR, 500ml	2
56.	Ampicillin sodium salt for molecular biology, 5gm	1
57.	PCR Master Mix (1000 x 50 µL rxns)	1 Pack
58.	Agar Plant Tissue Culture Tested, 500G	1
59.	Silver nitrate, 25G	2
60.	Acrylamide, Hi-AR, 500G	2
61.	Urea, 1Kg	1
62.	N,N,N',N'-Tetramethylethylenediamine, 100 ML	2
63.	Mercaptoethanol, 500ml	2
64.	Molecular Grade Absolute Ethanol, 500 ml	4
65.	Formaldehyde Solution, 500ml	2
66.	DNA LADDER 100bp 200 LN	1
67.	Reverted first strand cDNA Synthesis	1
68.	Acetone	2
69.	N,N'-Methylenebisacrylamide, 500 G	1
70.	White Ceramic Mortar and Pestle Set (Medium Size)	12
71.	Native PAGE protein marker	

72.	Protein Marker prestained wide range	
73.	Yeast extract	500g x2
74.	Dextrose	500g x2
75.	Mycological peptone	500g x2
76.	BSA fraction V	100g
77.	Bovine serum albumin fatty acid free	5 g
78.	Acrylamde	1 Kg
79.	N,N'-methylene bis acrylamide	250 g
80.	ECL prime/plus Western Blotting Substrate	
81.	Bradford reagent	500 ml
82.	Yeast protease inhibitor cocktail	
83.	BCA reagent	500 ml
84.	Bis-tris	
85.	N-dodecyl- $\beta$ -D-maltoside	
86.	$\epsilon$ -amino-N-caproic acid	
87.	Serva blue G- 250	
88.	Tricine	
89.	NADH	
90.	Glycerol-3-P dehydrogenase preferably from <i>Saccharomyces</i>	
91.	Triose phosphate isomerase preferably from <i>Saccharomyces</i>	
92.	Fructose 1,6- biphosphate	
93.	NT-BSA	
94.	MDA-BSA	
95.	Thiomershal	
96.	Catalase activity assay kit	
97.	Glutathione peroxidase (GPX) GPX3 (mouse), ELISA kit (mouse based)	
98.	Glutathione reductase from baker's yeast ( <i>S. cerevisiae</i> ) ammonium sulfate suspension, 100-300 units/mg protein (biuret)	
99.	Glutathione transferase	
100.	HNE-BSA	
101.	Carbonyl-BSA	
102.	DNPH	
103.	Anti-MDA, Antiserum rabbit polyclonal	
104.	Anti-HNE-michael adducts antibody, polyclonal rabbit	
105.	3,3' diaminobenzidine (DAB)	
106.	2-(4-iodophenil) 3-(nitrophenol-5 phenyl tetrazolium chloride (INT)	
107.	2-(4-iodophenil) 3-(nitrophenol-5 phenyl tetrazolium chloride	
108.	Peroxyntirite sodium salt	
109.	DNA Damage EIA kit	
110.	5,5'-Dithiobis( 2-nitrobenzoic acid)	
111.	B-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt	
112.	Triton X peroxide- and carbonyl-free	
113.	Triton X-100 solution bioultra, for molecular biology, ~10% in H2O	
114.	Glutathione, oxidized form, disodium salt, gssg	
115.	Ethacrynic acid	
116.	Xanthine	
117.	Anti-DNP polyclonal	

118.	Xanthine oxide from Bovine milk Grade III, ammonium sulfate suspension, 1.0-2.0 units/mg protein	
119.	Xanthine oxidase microbial	
120.	Bathocuproine disulfonic acid, disodium salt (BCS)	
121.	Catalase from Bovine liver lyophilized powder	
122.	Sodium cyanide (NaCN)	
123.	Ammonium molybdate	
124.	Ferrous sulphate	
125.	Sodium dithionite	
126.	Citrate	
127.	Isocitric acid	
128.	Cis-aconitic acid	
129.	MgCl <sub>2</sub>	
130.	Phenazine methosulfate (PMS)	
131.	Isocitrate dehydrogenase	
132.	NADP <sup>+</sup>	
133.	DL-isocitrate	
134.	CaCl <sub>2</sub>	
135.	Thiamine pyrophosphate (TPP)	
136.	Rotenone	
137.	Coenzyme-A	
138.	α-Kitogluterate	
139.	Malic acid (disodium salt).	
140.	Cellulose acetate membrane	
141.	Glyceraldehyde-3-phosphate	
142.	Alpha-glycerophosphate dehydrogenase.	
143.	Dihydroxyacetone phosphate	
144.	Rabbit muscle glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12)	
145.	Sodium α-glycerophosphate	
146.	Sodium pyruvate	
147.	Lactate dehydrogenase	
148.	D-fructose-1,6-diphosphate (tri-sodium salt)	
149.	Sodium arsenate (hexahydrate)	
150.	3-phosphoglycerate (Na salt)	
151.	ADP (trisodium salt)	
152.	Phosphoglyceromutase	
153.	Pyruvate kinase	
154.	HEPES	
155.	Ppi	
156.	Aldolase	
157.	Triose-phosphate isomerase	
158.	Glycerol-3-phosphate dehydrogenase.	
159.	2- phosphoglycerate (PGE)	
160.	Glycine(For electrophoresis ≥99%)	
161.	Sodium Carbonate	

**Plastic-wares, Glass-Wares and Lab supplies:**

SI No	Items	Qty
1.	Nitrile examination gloves medium 9.5, 100pc/pack	5 pack
2.	Nitrile examination gloves small 9.5, 100pc/pack	5 pack
3.	Graduated with PP Screw cap bottle, square with DIN thread and PP pouring rings, 2000ml	6 pc
4.	Screw cap bottle and pouring rings, 1000ml	6 pc
5.	Screw cap bottle and pouring rings, 2000ml	6 pc
6.	Amber wide mouth bottle,30ml	1pack
7.	Amber wide mouth bottle, 60ml	1pack
8.	Rack for Scintillation vial 8ml, 90 place	4pack
9.	Microcentrifuge tube 2ml, Autoclavable, sterile, graduated, low retention, 500/pack	5 pack
10.	PCR rack with cover,96place	2 pack
11.	24 well plate, FB, TCT, W/LID, S, IND	1 × 50 pc/pk
12.	T25 Flask, vented cap, adherent, TC treated	2 box
13.	Serological Pipette 10ml, PPW, PS,S,IND	1 pk
14.	Serological Pipette 5ml, PPW, PS,S,IND	1 pk
15.	Centrifuge tube Conical Bottom Tube, PP, 15 ml	1 box
16.	Centrifuge tube Conical Bottom Tube, PP, 50 ml	1 box
17.	Cotton Absorbant	10 rolls
18.	Cotton Non Absorbant	10 rolls
19.	Microtip, PP, 200-1000µl	5 box
20.	Microtip, PP, 2-200µl	5 box
21.	Microtip, PP, 0.2-10 µl	5 box
22.	Nitrile Examination Gloves (M)	5 box
23.	Parafilm M (4 X 125)	1 pk
24.	Gloves (Hi care, disposable)	4 box
25.	Desiccator Vacuum, PP, 300mm	1 pc
26.	Dissection Needle	10 pc
27.	ELISA Micro Test Plate, PS, flat bottom, 1/50	1×50plates/pk
28.	Freeze tag (green label), 33 x 13 mm, -40°C	1 roll
29.	Freeze tag (white label), 33 x 13 mm, -196°C	1 roll
30.	Measuring cylinder, PP, 1 L	2 pc
31.	Measuring cylinder, PP, 25ml	2 pc
32.	Micro Centrifuge Tube, PP, 0.5ml	2 box
33.	Micro Centrifuge Tube, PP, 1.5ml	5 box
34.	Micro Centrifuge Tube, PP, 1.5ml (Amber)	1 box
35.	Micro Centrifuge Tube, PP, 2ml (Amber)	1 box
36.	Micro Chattaway Spatula (6")	1 pc
37.	Micro Tube Cap Locks, With Holding Tabs, For 0.5ml Micro Centrifuge Tubes	20 pc
38.	Micro Tube Cap Locks, With Holding Tabs, For 1.5/2ml Micro Centrifuge Tubes	20 pc
39.	Aspirator bottle with stopcock, capacity 10 L	1 pc
40.	Plastic Box (medium – 13cm+8cm)	5 pc
41.	Plastic Box (small – 10cm+6cm)	5 pc
42.	Reversible Rack 80 places, capacity 1.5ml	2 pc

43.	Round Magnetic Stirrer Bar with Pivot Ring, Assorted	1 pk
44.	96 Well Clear FB, PS, TCT, W/LID, S, IND	1 × 50 pc/pk
45.	Test tube basket with cover (230x230x230 mm)	4 pc
46.	Tip box, PP, (5000 µl)	2 pc
47.	Glass slides	5 box
48.	Cover glasses square (18 mm)	10 box
49.	Heamocytometer Cover glass (20 × 25 mm)	1 box
50.	Cover glasses round (18 mm)	1 box
51.	Screw Cap Reagent Bottle (100ml)	10 pc
52.	Screw Cap Reagent Bottle (100ml) (Amber)	10 pc
53.	Screw Cap Reagent Bottle (250ml)	10 pc
54.	Screw Cap Reagent Bottle (250ml) (Amber)	10 pc
55.	Screw Cap Reagent Bottle (500 ml)	10 pc
56.	Screw Cap Reagent Bottle (1000 ml)	10 pc
57.	Measuring Cylinder (50ml)	2 pc
58.	Griffin Beaker (1000ml)	5 pc
59.	Griffin Beaker (500ml)	5 pc
60.	Griffin Beaker (100ml)	10 pc
61.	Large Test tubes, with rims	1 case
62.	Mohr Grad. Pipette (2ml)	5 pc
63.	Mohr Grad. Pipette (10ml)	5 pc
64.	Narrow Mouth Conical Flask (1000ml)	10 pc
65.	Narrow Mouth Conical Flask (100ml)	10 pc
66.	Narrow Mouth Conical Flask (25ml)	10 pc
67.	Narrow mouth Conical flask (2000ml)	4 pc
68.	PES hydrophilic membrane, syringe-driven filters(0.22um),13mm diameter	2
69.	Parafilm, 10.0 cm (4 in. X 125 FT. roll)	2
70.	Petriplate (single pack sterile), 90X15 mm (500 pcs/ case)	2 box
71.	50 ml graduated centrifuge tube (radiation sterilized)	2 box
72.	15 ml graduated centrifuge tube, pp (radiation sterilized)	2 box
73.	Aluminium foil	12
74.	Tissue paper	60
75.	Microfuge tube 1.5 ml, 500 pieces/pack	12
76.	Microfuge tube, 2ml, 500 pieces/pack	12
77.	PCR tube 0.2 flat top-1000	6
78.	Micropipette tip, 200-1000ul, 500 pieces/pack	12
79.	Micropipette tip, 2-200 ul, 1000 pieces/pack	12
80.	Micropipette tip, .2-10ul, 1000 pieces/pack	12
81.	Centrifuge tube, 15ml, 500 pieces/pack	1
82.	Centrifuge tube, 50 ml, 500 pieces/pack	1
83.	Petri plate, 90X15 mm	1
84.	Para flim	3
85.	Metaloops	4
86.	Nitrile gloves, 9.5 inch, medium size, 100 pieces	4
87.	Whatmann Filter papers	4
88.	pH Paper	5
89.	Cryo Boxes	6

90.	Glass spreaders	12
91.	PVDF membrane (Immobilon P) 0.45 microns	1 roll
92.	PVDF membrane (Immobilon P) 0.45 microns 8x10 cm sheets	10 sheets
93.	Whatman Filter Paper (3 MM)	1 roll
94.	Whatman Filter Paper (1 MM)	1 roll
95.	Staining Trays Amber	
96.	Staining Trays	
97.	Culture tubes without rim(25×150)	
98.	15 ml Conical bottom Glass tube	
99.	250 ml Conical bottom Glass tube	
100.	500 ml Conical bottom Glass tube	
101.	Glass homogenisers 2ml	
102.	Glass homogenisers 5ml	
103.	Glass homogenisers 10ml	2 pc
104.	Glass homogenisers 20ml	2 pc
105.	Glass homogenisers 30ml	
106.	Glass homogenisers 50ml	
107.	Pipettes Mohr type 10ml graduation interval 0.1	
108.	Pipettes Mohr type 5ml graduation interval 0.05	
109.	Pipettes Mohr type 2ml graduation interval 0.02	
110.	Pipettes Mohr type 1ml graduation interval 0.01	
111.	Petri plates 90-100mm	

### **Terms and Conditions of Purchase**

**The offers addressed to Head, Department of Biotechnology, Siksha Bhavana,Visva Bharati, Santiniketan- 731235, MUST be sealed and marked as Ref No. VB-BT/Practical grant/2017-2018/Consumables/01, dated 16-01-2018, Due Date 06-02-2018**

#### **1. Each quotation must follow the norms bellow:**

- 1. Hard copy of the quotation within envelope alone with soft copy with both Microsoft word and PDF format in a CD.**
- 2. Each group of Items should be in different page and quote all the items in each group according to the serial number given in the tender. Each group should be quoted separately.**
- 3. GST must be mentioned and included with the quoted Price for each individual product.**
- 4. Vendors should provide the authorization certificate from the principal companies for their product.**
- 5. Vendors should be careful so that the specified product perfectly matches with their quoted Cat. No.**
- 6. In case of imported items rated in other currency, the price must be converted in INR price including custom duty depending on DSIR.**

**Kindly note that the total order value may vary according to the requirement. Vendors will be directed to supply this material in different times within the next one year from the date of advertisement in the same rate in different quantities.**

**Incomplete or inappropriate quotation will not be entertained.**

2. Apart from other applications in respect of the quality, standard, terms etc., the offer should specially clarify the points noted below, in the following order:

- i) Validity of the offer
- ii) Period of Delivery
- iii) Place of Delivery
- iv) GST (and other applicable tax, if any)
- v) Insurance
- vi) Packing and forwarding Charges and Freight
- vii) Other incidental charges. The rates and terms should be noted on F.O.R. / F.O.B. basis or delivery at V.B. site

3. Below are the details of the above points:

i) *Validity of the offer*: - Here please mention the time ( From \_\_\_\_\_ To \_\_\_\_\_ ) up to which your quotations shall be correct. The quotationer shall have no right to revise them within the period given here on the plea of fluctuations in the marker rate. Normally the validity of the offer should be for a specified period of one year.

ii) *Time of Delivery*: - State the period during which the supplies will be effected by you in full.

iii) *Place of Delivery*: - Mention clearly the place of destination, and mode of transit by which the supplies will be effected without any extra charges. The University will prefer F.O.R. Santiniketan prices in case of outstation suppliers, and delivery at our site in case of local suppliers.

iv) *GST*: - State the present rates for individual item. In case the same is not applicable, mention “*Not Applicable*” and if the prices are inclusive please write “*Included in the Prices*”. *GST /I.T Pan No. or Registration Number (as the case may be should invariably be quoted in the offer, a photocopy of the latest clearance certificate of the above be enclosed with the offer, failing which the offer will not be considered.*

(V.B. can provide DSIR certificate for Duty exemption for research purposes whenever applicable).

v) *Insurance*:- If the rates are inclusive of insurance please write “*Included in the prices*” otherwise state “*Not included*”. In case local supplier where insurance is not necessary, they may mention “*Does not arise*”.

vi) *Packing and Forwarding Charges*:- If these charges are accounted for in the prices quoted by you, please mention “*Included in the prices*”, otherwise please give an approximate charge thereof. It may be noted that the university will pay only the actual expenses on this accounts.

vii) *Other incidental charges*:- Other charges which are not fully accounted for by the replies given above, may be mentioned.

4. University reserves the right to accept / cancel any of the tender or part thereof without assigning any reason.

5. Suppliers having Rate Contract with Central or Provincial Government should quote along with a certified copy of the current Government Rate Contract.

6. The offers must be accompanied by the related catalogues, leaflets, brochures and samples wherever possible. While effort is made to return the samples to the suppliers, the HOD / P.I./ Coordinator/Indenter cannot accept any responsibility in this respect.

7. All quotations should be net, after showing discounts etc.

8. If the terms of the quotations etc. are vague, incomplete, contradictory and confusing the offer will be rejected without any explanation.

9. The suppliers will be informed of the decision in due course in case of decision in their favour and any interim enquiries about offers will not be attended to.

10. Once the offer is accepted by the HOD / P.I./ Coordinator/ Indenter and the order is placed on the basis, the supplier will have to deliver the goods accordingly within the stipulated time, or meeting the compensation for loss if any on account of non execution of the supply order.

11. Liquidated Damage:-Visva-Bharati deserves the right to impose liquidated damage as and when required; the rate of penalty will be at par with the same of the Govt. of India’s instruction.

12. Bank Commission where applicable will have to be borne by the supplier.

13. All disputes subject to “Bolpur, Birbhum,W.B. Jurisdiction” only.

**Head**  
**Dept. of Biotechnology,**  
**Visva-Bharati**