



# DEPARTMENT OF BIOCHEMISTRY

(DST-FIST Sponsored Department)

## UNIVERSITY OF KERALA

(Established as University of Travancore by the Travancore University act in 1937 and reconstituted as University of Kerala by the Kerala University act of 1957 and presently governed by the Kerala University act of 1974 passed by the Kerala state Legislative Assembly)

**(Re – accredited by NAAC with 'A++' Grade)**



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03-10-2022

### QUOTATION NOTICE

#### DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF KERALA

#### **(BCH/NP/QN-03/2022-23/DPT FUND)**

Competitive quotations are invited for the purchase of the following **Chemicals, Biochemicals and Consumables** with make and specifications detailed below. Sealed quotations addressed to Professor and Head, Department of Biochemistry, University of Kerala, Kariavattom campus, Thiruvananthapuram-695581 should reach on or before **13.10.2022 at 4 P.M.**

Sl. No	Product Code	Name & Description of Item	Make	Quantity	Unit
<b>CHEMICALS &amp; BIOCHEMICALS</b>					
1	12648010	Recovery Cell Culture Freezing Medium	Invitrogen	50 ml	1
2	32132	Pierce ECL Plus Western Blotting Substrate	Invitrogen	100 ml	1
3	15596026	TRizol Reagent	Invitrogen	100 ml	1
4	4367659	Power SYBR Green PCR Master Mix	Invitrogen	5 ml	3
5	00-4976-93	eBioscience Lipopolysaccharide (LPS) solution (500 X)	Invitrogen	100 µl	2
6	AM9915G	DEPC Treated Water	Invitrogen	100 ml	1
7	11995065	DMEM, high glucose, pyruvate	Invitrogen	500 ml	5
8	1708891	cDNA synthesis kit	Biorad	100*20	1
9	161-0719	Tris base	Biorad	1Kg	1
10	1610157	30%Acrylamide/Bis Acrylamide Sol (29:1)	Bio-Rad	500 ml	2
11	1610700	Ammonium Persulfate	Bio-Rad	10 g	1

12	4970T	Beta actin(13E-5) rabbit mAb	Cell signalling technologies	20	1
13	7074P2	Anti rabbit igg HRP linked antibody	Cell signalling technologies	100	1
14	9475T	Anti sirt-1 antibody	Cell signaling technologies	20	1
15	13667T	Anti-MMP-9 antibody	Cell signaling technologies	20	1
16	9751T	Tri-Methyl-Histone H3 (Lys4) (C42D8) Rabbit mAb	Cell signaling technologies	20	1
17	32027S	eNOS(D9A5L) rabbit mAb	Cell signaling technologies	100	1
18	12282T	Cox2 (D5H5) Rabbit mAb	Cell signaling technologies	20	1
19	10270106	Foetal Bovine Serum	Gibco	500 ml	2
20	T-9424	Tri reagent	Sigma Aldrich	200 ml	1
21	D7777 10x1L	DMEM	Sigma aldrich	10X1L	1
22	T-5500	Thiobarbituric acid	Sigma Aldrich	25gm	1
23	50661	Heparin sodium salt	SRL	1g	1
24	97350	BSA	SRL	50g	1
<b>CONSUMABLES</b>					
25	SFPS33XB	Syringe filter	Axiva	50	4
26	PCR-02-C	PCR tube	Axygen	1 pack	2
27	339650	Conical Tube 15 ml, bulk, case of 500	Thermofisher	500/Case	1
28	156340	EasY Flask 25 cm <sup>2</sup> , solid closure	Thermofisher	200/Pack	1
29	167008	96 well plate, flat bottom, cell culture treated, with lid	Thermofisher	50/Pack	1
30	723-2520	Nalgene Sterile Syringe Filter	Thermofisher	50/Pack	2
31	1620115	Nitrocellulose Membrane (0.45 µM)	Biorad	1 roll(320 cm x 3.5 M)	1
32	1003-150	Whatman no3 disc 150 mm	whatman	100 disc/pack	1

Sl. No.	Gene Name	Orientation	Sequence	Barcode	Base Pairs	Required Quantity
49	SMAD7	Forward	AGC AGA AAT CCA AGC ACC	Biosciences	18	37
		Reverse	CTG CCA CCA AGG GAA TAA G	Biosciences	18	40
50	Akt	Forward	GCCACCGATACCAATGAAACGA	Biosciences	18	40
33		Reverse	TTGAGGAGGAAGTAGCGTGG	Biosciences	18	40
51	GAPDH	Forward	TGGTCAAAGAAACTCGGGTACTT	Biosciences	18	40
		Reverse	AGTGCCAGCCTCGTCTCATA	Biosciences	18	44
		Reverse	TGAGAAATCGACCCCTGATAAC	Biosciences	18	40
34	BMPR2	Forward	GGGACCGGAPACCAACGA	Biosciences	18	40
52		Reverse	ATTCTGGGAAGCAGCCGTAG	Biosciences	18	40
53	Beta Actin	Forward	TCACTCGGAGCAGCCTAC	Biosciences	18	36
35	Total bacteria	Forward	CCCATACCCACCATCACACC	Biosciences	18	50
54	MD2	Forward	CCTACGGGAGGCAGCAG	Biosciences	18	34
		Reverse	AATGATGAGACCCCTTCTGTCTGCC	Biosciences	18	40
36	DNAI1	Forward	TTTACAGGCTCTCCGCACTTGTG	Biosciences	18	40
55		Reverse	GGAGCATGCTGCAATTCGACGA	Biosciences	18	45
		Reverse	AGAACTCGACCACAATCTT	Biosciences	18	38
56	Bifidobacterium	Forward	AGCTGACGACAACCATGCAC	Biosciences	18	38
37		Reverse	CGCGGGCACCATGAGCAG	Biosciences	18	35
		Reverse	CCCATACCCACCATCACACC	Biosciences	18	40
57	IL17A	Forward	TCGCGTCYGGTGTGAAAG	Biosciences	18	40
		Reverse	ATCGACATGGAGCTGGTGA	Biosciences	18	45
		Reverse	CCACATCCAGCTTCGACCTTGG	Biosciences	18	40
38	Bacteroides	Forward	GGAGAATTCATCCATGTGC	Biosciences	18	40
58		Reverse	GGARGATGTGGTAAATTCGATGAT	Biosciences	18	45
		Reverse	CACATCGAGGCTAACTTCG	Biosciences	18	45
59	VEGF R1	Forward	AGCTGACGACAACCATGCAC	Biosciences	18	40
39	Proteobacteria	Forward	TTCTGTGCCICICICGTTT	Biosciences	18	40
60	lip 7	Forward	CATGACGTTACCCGCAGAAGAAG	Biosciences	18	44
		Reverse	CCTGATTGGACGGCATGGAC	Biosciences	18	40
		Reverse	CTCACGAGCTTAAGCTTC	Biosciences	18	40
40	Verrucomicrobia	Forward	GAATTCTCGGTGTAGCA	Biosciences	18	37
61	Actinophila	Reverse	GGCATTGTAGTACGTGTGCA	Biosciences	18	34
41	miR-143	Forward	CAGCACGTGAAGGTGGGGAC	Biosciences	18	41
		Reverse	ACACTCCAGCTCCGCGGTGAGCATCCGATTC	Biosciences	18	44
	Clostridium	Reverse	TGGTGTCTGGAGTCTG	Biosciences	18	42
42	miR-200a	Forward	ACACTCCAGCTCCGCGGTGAGCATCCGATTC	Biosciences	18	41
		Reverse	CTCAACTGGTGTCTGTGGA	Biosciences	18	40
43	Prevotella	Forward	ACACTCCAGCTCCGCGGTGAGCATCCGATTC	Biosciences	18	40
63		Reverse	CTCAACTGGTGTCTGTGGA	Biosciences	18	40
		Reverse	ACACTCCAGCTCCGCGGTGAGCATCCGATTC	Biosciences	18	40
		Reverse	TCCTGCACGCTACT TGGCTG	Biosciences	18	43
44	Roseburia/ Eubact	Reverse	TGGTGTCTGGAGTCTG	Biosciences	18	39
64	miR-155	Forward	ACACTCCAGCTGGGTTAATGCTAATCGTGAT	Biosciences	18	47
		Reverse	GCGGTRCGGCAAGT CTGA	Biosciences	18	42
		Reverse	CCTCCGACACTCTA GTMCGAC	Biosciences	18	40
		Reverse	TGGTGTCTGGAGTCTG	Biosciences	18	40
45	Bacteroides fragilis group	Forward	TGGCAGAAAACAGCAGCAGT	Biosciences	18	40
		Reverse	ATAGCCTTTCGAAAGRAAGAT	Biosciences	18	40
		Reverse	CCAGTATCAACTGCAATTTTA	Biosciences	18	40
46	Bmp7	Forward	TGTGAACCTGAGGACTGTG	Biosciences	18	40
66	BAFF	Forward	CAGATTCACCTGGGAAGAGG	Biosciences	18	41
		Reverse	CTGCTGTAACCTCACTTGCTG	Biosciences	18	41
		Reverse	GAGCGTGTGTACTTAGCA	Biosciences	18	32
47	Shad3	Forward	AGC TCAGTC GAG CCC AGT TC	Biosciences	18	32
		Reverse	GTCATCAATGAGTCCGAGAGT	Biosciences	18	32
		Reverse	GCAGGAAGGCTCTGSSATAA	Biosciences	18	32
48	GAPDH	Forward	TTCGACAGTCAGCCGCATCTATCCGTTGAC	Biosciences	18	32
		Reverse	ATCCGATCTGATAGAG	Biosciences	18	32
		Reverse	TCCGACCTTCA	Biosciences	18	32

69	CYP7A1 Forward Reverse	AGTTGAAAACAGGGGGCACA TGCTAACTCGTGCCACCAC	Barcode Biosciences	18	40
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70	INTERLEUKIN 1 BETA (IL1B) Forward Reverse	CTGCAACACCTGGGATGACT TCTTTGGGTAACGGTTGGGG	Barcode Biosciences	18	40
71	IL10 Forward Reverse	ATGGCAACTCGGCTAGAGTC TTTCCAAGGTGCTGGGTCAG	Barcode Biosciences	18	40
72	iNOS (ARG2) Forward Reverse	GGGCTGCCGTCTAAAAGACT CACCGCTCTGTTAACCACT	Barcode Biosciences	18	40

The firms who wish to supply the items are requested to submit the quotation in sealed cover to the undersigned not later than **4pm on 13.10.2022**. The quotations are invited only from the **Authorised dealers** of the corresponding products. Kindly mention our Sl. No and the quantity for the products you are quoting. Quotations will be opened on **14.10.2022** in the presence of such tenderers or their authorized representatives who may be present at that time.











