

Annual Requirement of Division of Molecular Biology-2024

Chemicals, Reagents, Media

Serial no	Name of the item	Specification	Pack size	Quantity required	Bidder Response		If "No" Bidder specification
					Yes	No	
1	M17 Media	1.1 M 17 Broth 500g : Oxid UK equivalent, Dehydrated media, selective for <i>Streptococcus thermophilu</i> , Expiry date minimum two years ahead at reception.	1.1 500g	1.1 500g			
		1.2 M 17 agar 500: Oxid UK equivalent, Dehydrated media, selective for <i>Streptococcus thermophilu</i> , Expiry date minimum two years ahead at reception.	1.2 500g	1.2 500g			
2	TAE (Tris-Acetate-EDTA) buffer x10	free of DNase, RNase and protease activity, Molecular biology grade, For Agarose electrophoresis	1 litre pks	2 pks=2 liters			
3	Absolute ethanol	99.9% purity, DNase-, RNase- and Protease-Free, Molecular grade, suitable for DNA and RNA work	As supplied by supplier	1 L			
4	Metaphor Agarose (Super Fine Resolution Agarose)	Intermediate melting temperature agarose, Agarose with twice the resolution capabilities of the finest sieving agarose products , Offer high resolution, Able to resolve DNA fragments differing in size by 2%, in the range of 200 bp to 800 bp, Challenge polyacrylamide gels in seperating DNA fragments, Fast runing protocols DNA differing in size by 1% can be able to resolve, Ideal for resolving AMPFLPs, STRs and tri-and tetranucleotide repeats, Ideal for small PCR fragments, Choice agarose for resolving hard to see bands, Choice agarose for resolving hard to see bands, Shelf life considered for more than two years ahead at the time of reception, Shelf life considered for more than two years ahead at the time of reception, Brand specify	As supplied by supplier	50 g			
5	PCR master mix Master Mix - Ready to use in Standard / General PCR	Brand: Specify, should be compatible with high quality <u>products giving accurate results</u>	As supplied by supplier	For 400 reactions			
		Ready to use solution with two dyes (yellow & blue) allowing to monitor the progress of electrophoresis					
		Containing 2X reaction buffer,400 µM of each dNTP,3 µM MgCl2, Taq DNA polymerase					
		Atleast 2 years expiry at the time of reception (specify the expiry)					
		One vial for 100 PCR reactions preferred					
		Loading dye suitably included and ready to load	250µl -vial	4 vials			

		Fragments : 100-1000bp in 100bp increments					
6	100bp DNA Ladder direct load included dye	Brand : Specify, should be compatible brand with current lab protocols					
7	PCR Mastermix colour	Brand : Specify, should be compatible brand with current lab protocols	100 reactions of 50µl (1 kit)	4 kits			
		Ready to use solution with dyes (Yellow-Blue) allowing to monitor the progress of electrophoresis.					
		Contain 2x reaction buffer, 400µM of each DNTP Taq polymerase, 3µM MgCl ₂					
		1 vial for 100 PCR reactions of 50µl					
		Shelf life 2 more years at the time of reception					
8	Primers PCR A1A2 common F	5'-GAT GTT TTG TGG GAG GCT GTT AT - 3'	25nm in freeze dried from, Desalted	2 sets			
9	Primers A1 R	5' - GAT GTT TTG TTG TGG GAG GCT GTT AT -3'	25nm in freeze dried from, Desalted	2 sets			
10	Primers A2 R	5' - GAT GTT TTG TGG GAG GCT GTT AG - 3'	25nm in freeze dried from, Desalted	2 sets			
11	Restriction enzyme - Dde 1	High purity, with all the necessary buffers,	5000 units	1 vial			
12	Restriction Endonuclease Enzyme Apa1	with reaction and loading buffers, enzyme 10 u/ul	5000 units	1 vial			
13	Restriction Endonuclease Enzyme HinD111	with reaction and loading buffers, enzyme 10 u/ul	5000 units	1 vial			
14	Restriction Endonuclease Enzyme EcoRI	with reaction and loading buffers, enzyme 10 u/ul	5000 units	1 vial			
15	Restriction Endonuclease Enzyme BamH1	with reaction and loading buffers , enzyme 10 u/ul	5000 units	1 vial			
16	Restriction Endonuclease Enzyme Hae 111	with reaction and loading buffers ,enzyme 10 u/ul	5000 units	1 vial			
17	Primers set Common Mammal			2 sets			
	17.1 Com Maml, Reverse	R- 5' TTG TGT TTG CCG AGT TCC TTT TAC 3',	25 nm, freeze dried form	2 sets			
	17.2 Com Maml, Forward	F- 5' ACA TGC CTA ACG AGC CTG GTG ATA 3',	25 nm, freeze dried form	2 sets			
	Primer set A1, A2 and A1A2 mod						

18	18.1 mod A1Fd	5' ATC CCT TCC CTG GAC CCA TCC A 3'	25 nm, freeze dried form	2 sets			
	18.2 mod A2Fd	5' CCC TTC CCT GGA CCC ATC CC 3'	25 nm, freeze dried form	2 sets			
	18.3 mod A1A2 Rev	5' CCT TCT TAG GTT TGT TAT TCT TAG CC 3'	25 nm, freeze dried form	2 sets			
Bacterial 16S rRna of gene primers set 1							
19	19.1 8F bact 16S	5'-GGA TTA GAT ACC CTG GTA GTC C-3'	25 nm, freeze dried form	2 sets			
	19.2 8R Bact 16S	5'- TCG TTG CGG GAC TTA ACC CAA C-3'	25 nm, freeze dried form	2 sets			
	19.3 8R bact 16s	5' TCGTTGCGGGACTTAACCCAAC 3'	25 nm, freeze dried form	2 sets			
Bacterial 16S rRna gene primers set 2							
20	20.1 P27F bact/n16S	5'- AGA GTT TGA TCM TGG CTC AG-3'	25 nm, freeze dried form	2 sets			
	20.2 P1492R bact/n16S	5'- CGG TTA CCT TGT TAC GAC TT-3'		2 sets			
Cattle Horse specific primer set 1							
21	21.1 CaHor F Common	5' - GAC CTC CCA GCT CCA TCA AAC ATC TCA TCT TGA T GAAA-3'	25 nm, freeze dried form	2 sets			
	21.2 Cattle R	5' - CTA GAA AAG TGT AAG ACC CGT AAT ATA AG-3'	25 nm, freeze dried form	2 sets			
	21.3 Horse R	5' - CTCAGA TTCA CTCG AC GAGGGTAGTA - 3'	25 nm, freeze dried form	2 sets			
22	Gram Staining kit for bacterial staining	Consist of Gram's Crystal Violet, Gram's Decolourizer, Gram's Iodine, counter stain		for 1000 tests			

