

Fisher Biotec offers a comprehensive range of quality products at competitive prices. We specialize in the manufacture of leading-edge products for Molecular Biology, Genomics and Proteomics research.

Catalog No.	Pack Size	Description
AGAROSE		
Molecular Biology Grade Agarose		
AG-100	100 gms	Environmentally friendly recommended for Southern and Northern blotting applications where high purity and low sulphate is required. Due to its low EEO (0.12), DNA sized between 100 - 50,000bp can be efficiently separated. A high gel strength of >1,300g/cm ² (1% gel) allows the separation of larger DNA molecules.
AG-500	500 gms	
AG-1000	1000 gms	
High Resolution Agarose		
AG-HR-50	50 gms	Most suited for the resolution of fragments between 250 and 1,000 base pairs. Varying the concentration of the gel allows effective resolution of different sized products.
AG-HR-100	100 gms	
Ultra High Resolution Agarose		
SYN-100	100 gms	Most suited for the resolution of fragments of up to 500 base pairs. Varying the concentration of the gel allows effective resolution of different sized products.
Low Melting Point Agarose		
AG-LMA-50	50 gms	Most suited for extraction and purification of nucleic acids from agarose gel. This is due to the low gel strength (400gms/cm ² at 1%) and the low melting temperature (26.9°C) properties of this gel. DNA products of >1,000 bp can be finely resolved with this gel.
AG-LMA-100	100 gms	
BIOCHEMICALS		
IPTG (Isopropyl-beta-D-Thiogalactopyranoside)		
1758-1400-1	1 gm	IPTG is a non-metabolizable galactose analog that induces expression of the lac operon in E.coli. IPTG functions by binding to the lac I repressor and altering its confirmation preventing the repression of the b-galactosidase coding gene lac Z.
1758-1400-5	5 gms	
1758-1400-10	10 gms	
X-Gal (5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside)		
1758-0300-500	500 mg	X-Gal is a chromogenic substrate for b-galactosidase that produces a blue that can easily be detected visually over background. X-Gal is the substrate of choice for blue-white selection of recombinant bacterial colonies with the lac genotype.
1758-0300-1	1 gms	
1758-0300-5	5 gms	
1758-0300-10	10 gms	
DTT, Clelands Reagent (Dithiotreitol)		
1758-9030-5	5 gms	DTT or Clelands Reagent reduces disulfides to their corresponding thiols. It is used at low concentrations to stabilize enzymes containing free sulphhydryl groups. Higher concentrations of DTT are used to cleave disulphide linkages in polypeptides and to facilitate protein denaturation by detergents or chaotropic agents.
1758-9030-10	10 gms	
1758-9030-25	25 gms	
BUFFERS		
Tris-EDTA (10x TBE Buffer)		
TBE-1	4 sachets	Each pack contains 4 sachets of buffer mix. Each sachet is sufficient to make 1 litre.
Laemmli (10x Tris-Glycine Buffer)		
TGB-1	4 sachets	Each pack contains 4 sachets of buffer mix. Each sachet is sufficient to make 1 litre.
Phosphate Buffered Saline (10x PBS)		
PBS-1	4 sachets	Contains sodium phosphate and sodium chloride. Each pack contains 4 sachets of buffer mix. Each Sachet is sufficient to make 1 litre.

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BUFFERS (continued)		
2x Gel Loading Buffer		
GLB2-5	5 ml	Contains 5% Ficoll 400, 0.8% bromophenol blue, and 0.8% xylene cyanol in TE Buffer pH 8.0. The bromophenol blue and xylene cyanol dyes are used for tracking migration during electrophoresis.
6x Gel Loading Buffer		
GLB6-2	1 ml	Contains 15% Ficoll 400, 0.25% bromophenol blue, and 0.25% xylene cyanol in TE Buffer pH 8.0. The bromophenol blue and xylene cyanol dyes are used for tracking migration during electrophoresis.
GLB6-5	5 ml	
GLB6-10	10 ml	
DNA MARKERS		
Lambda/Hind III		
LAM-H3	100 µg	Lambda cl 857 Sam 7/Hind III fragments are suitable for sizing single and double stranded DNA from 125 bp to 23 Kb. Supplied as 1 vial of marker and 1 vial (1 ml) of 2x gel loading buffer.
Lambda/Eco R1		
LAM-E1	100 µg	Lambda cl 857 Sam 7/Eco R1 fragments are suitable for sizing single and double stranded DNA from 3530 bp to 21 Kb. Supplied as 1 vial of marker and 1 vial (1 ml) of 2x gel loading buffer.
Lambda/Eco R1 and Hind III		
LAM-EH	100 µg	Lambda cl 857 Sam 7/Eco R1 + Hind III fragments are suitable for sizing single and double stranded DNA from 564 bp to 21 Kb. Supplied as 1 vial (100 µg) of marker and 1 vial (1 ml) of 2x gel loading buffer.
pBR 322/Hae III		
PBR-H3	100 µg	pBR322 plasmid DNA digested to completion with Hae III restriction endonuclease and is suitable for sizing single and double stranded DNA from 7 to 583 base pairs. Supplied as 1 vial of marker and 1 vial (1 ml) of 2x gel loading buffer.
pUC19/Hpa II		
PUC-H2	100 µg	Purified pUC19 DNA digested to completion with Hpa II restriction enzyme provides an excellent range of molecular markers in the lower register. Supplied as 1 vial of marker and 1 vial (1 ml) of 2x gel loading buffer.
FN-1		
FN-1	100 µg	This marker uses selected restriction fragments prepared from purified pUC19 DNA to provide an excellent range of molecular markers in the mid to lower molecular range. Supplied as 1 vial of marker and 1 vial (1 ml) of 2x gel loading buffer.
dNTPs - NUCLEOTIDES		
Sets of dNTPs (Applications: Fisher Biotec dNTPs are suitable for all applications including PCR, DNA synthesis, low-copy amplification, and Real Time PCR)		
DN-10	4 x 10 µmole	dNTPs which are enzymatically synthesised from deoxy nucleotide monophosphates by a process of phosphorylation. The process uses highly specific enzyme systems which eliminate impurities and PCR inhibitors such as modified nucleotides and pyrophosphates. The dNTPs are then purified with preparative HPLC and are at least 98% pure.
DN-10/100	4 x 10 µmole	
DN-25	4 x 25 µmole	
DN-25/100	4 x 25 µmole	
DN-40	4 x 40 µmole	
DN-100	4 x 100 µmole	

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dNTPs – NUCLEOTIDES (Continued)		
Ready-to-use dNTP Mixes (Applications: Fisher Biotec dNTPs are suited for use with DNA polymerases in PCR and in the labelling and sequencing of DNA)		
DN-2M	1 ml of 2mM equimolar mix	Ready-to-use dNTP mixes are designed to save researchers time and minimize the possibility of contamination because of the fewer pipetting steps required. Ready-to-use dNTP mixes are supplied as an aliquot of an equimolar mix of each nucleotide (dATP, dCTP, dGTP, dTTP).
DN-10M	1ml of 10mM equimolar mix	
DN-XM	1ml of equimolar mix	
The complete range of individual nucleotides is also available. Please contact us for details.		
EDNA TESTING KITS – DNA EXTRACTION		
EDNA HiSpEx Blood Kit		
EB-100	100 extractions	The Easy DNA High-Speed Extraction blood kit has been developed to rapidly produce denatured DNA suitable for PCR and related processes. It has been designed for extraction of DNA using manual or high-throughput robotic systems and does not require centrifugation.
EB-1000	1,000 extractions	
EB-10000	10,000 extractions	
EDNA HiSpEx Tissue Kit		
ET-100	100 extractions	The Easy DNA High-Speed Extraction tissue kit has been developed to rapidly produce denatured DNA suitable for PCR and related processes. It has been designed for extraction of DNA using manual or high-throughput robotic systems and does not require centrifugation.
ET-1000	1,000 extractions	
ET-10000	10,000 extractions	
EDNA HiSpEx Plant Kit		
EP-100	100 extractions	The Easy DNA High-Speed Extraction plant kit has been developed to rapidly produce denatured DNA suitable for PCR and related processes. It has been designed for extraction of DNA using manual or high-throughput robotic systems and does not require centrifugation.
EP-1000	1,000 extractions	
EP-10000	10,000 extractions	
ENZYMES - Taq		
Taq DNA Polymerase (Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, and primer extensions.)		
TAQ-1	250 units	5'-3' Thermostable DNA Polymerase isolated from the extreme thermophilic bacteria <i>Thermus thermophilus</i> YT1. Taq DNA Polymerase is a thermostable enzyme which replicates DNA at 74°C and remains functional after incubation at 95°C. The ability of this enzyme to survive multiple rounds of temperature cycling is the basis of the PCR reaction and thermal cycle sequencing. It is supplied with 25mM MgCl ₂ (1ml) and 10x PCR Reaction Buffer (1ml).
TAQ-2	500 units	
TAQ-3	1,000 units	
TAQ	Your specification	
Taq F1 DNA Polymerase (Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, and primer extensions.)		
TF1-1	250 units	Taq* F1 DNA Polymerase is a highly purified recombinant thermostable DNA Polymerase that has been isolated from <i>E.coli</i> carrying a vector encoding the <i>Thermus aquaticus</i> DNA polymerase gene. The enzyme possesses a highly processive 5'-3' DNA polymerase activity with optimum activity achieved at 74°C. Taq F1 DNA Polymerase lacks 3'-5' exonuclease activity.
TF1-2	500 units	
TF1-3	1,000 units	
TF1	Your specification	
Taq F2 DNA Polymerase (Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, primer extensions and microarray applications.)		
TF2-1	250 units	Taq F2 DNA Polymerase is a highly purified recombinant thermostable DNA Polymerase that has been isolated from <i>E.coli</i> carrying a vector encoding the <i>Thermus aquaticus</i> DNA polymerase gene. The enzyme possesses a highly processive 5'-3' DNA polymerase activity with optimum activity achieved at 74°C.
TF-2	500 units	
TF-3	1,000 units	
TF2	Your specification	

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ENZYMES - Taq (continued)		
Taq-Ti Heat-Activated DNA Polymerase (<i>Applications: PCR-based DNA amplification, cycle sequencing, amplification of cloned inserts in vectors, primer extensions, and all applications requiring high specificity and hot-start PCR.</i>)		
TAQ-Ti-1	250 units	TAQ-Ti is a highly purified recombinant thermostable DNA Polymerase that has been isolated from E.coli carrying a vector encoding the Thermus aquaticus DNA polymerase gene. The TAQ-Ti polymerase mix contains a substance which blocks polymerase activity prior to the on-set of thermal cycling.
TAQ-Ti-2	500 units	
TAQ-Ti-3	1,000 units	
PCR REAGENTS		
5x PCR Polymerisation Buffer		
PB-1	1 ml	Reaction buffer supplemented with dNTPs in a ready-to-use format. Ideally suited for applications involving primer extension and PCR. This buffer does not contain MgCl ₂ .
PB-10	10 x 1 ml	
Taq DNA Polymerase 10x Reaction Buffer		
TQRB-1	1 ml	This Reaction Buffer is prepared to the specifications that optimise the performance of Taq DNA Polymerase. It is recommended that only this buffer be used in conjunction with Taq DNA Polymerase, to obtain optimal performance in all PCR situations. This buffer does not contain dNTPs or MgCl ₂ .
TQRB-10	10 x 1 ml	
TQRB-50	50 ml	
25 mM Magnesium Chloride		
MC-1	1 ml	Nuclease-free, PCR grade reagent prepared under aseptic conditions. Suitable for use in PCR reactions.
MC-10	10 x 1 ml	
MC-50	50 ml	
Bovine Serum Albumin		
BSA-10	1 ml	Bovine Serum Albumin solution treated and tested to ensure the absence of any contaminating DNase or RNase activity. Concentration: 10 mg/ml.
BSA-50	5 ml	
Ultra Pure Water (PCR grade)		
UPW-100	100 ml	Nuclease-free, molecular biology grade product treated and tested to ensure the absence of contaminating DNase and RNase activity. This product is suitable for use in PCR.
UPW-500	500 ml	