

buffers, markers, membranes

- CONVENIENT, PRE-MADE STOCK SOLUTION OR POWDER – JUST DILUTE OR DISSOLVE AS NECESSARY WITH WATER
- SAVE TIME & TROUBLE – NO WEIGHING, pH ADJUSTMENT OR NEED TO STOCK INDIVIDUAL COMPOUNDS
- LONG SHELF-LIFE
- CONSISTENCY ASSURED – RIGOROUS QC FOR REPRODUCIBLE SEPARATIONS

PAGE buffers

Five buffers are available in powder sachets for a range of native and denaturing protein gel electrophoresis techniques. Each powder sachet, which is supplied as a 10-pack, may be reconstituted to make 1 litre of working solution. Running buffers are also available in 1 litre and 5 litre volumes as ready made 10x Tris-Glycine and 10x Tris-Glycine-SDS solutions.



Technical Specifications		
Powder Buffer	Composition	Applications
Tris-Glycine SDS	Each litre of 1x working solution contains: Tris-base (25mM); glycine (192mM); SDS, 0.1% (w/v); followed by distilled water. Working solution pH = 8.3.	Denaturing SDS-PAGE for most cellular proteins, 10- 200kDa in size
Tris-Glycine	Each litre of 1x working solution contains: Tris-base (25mM); glycine (192mM); followed by distilled water. Working solution pH = 8.3.	Native PAGE
Tris-Tricine-SDS	Each litre of 1x working solution contains: Tris-base (0.1M); tricine, (0.1M); SDS, 0.1% (w/v); followed by distilled water. Working solution pH = 8.25.	Denaturing SDS-PAGE, with greater resolving power for small proteins 2-20kDa in size
MOPS-SDS	Each litre of 1x working solution contains: MOPS (50mM); Tris Base (50mM); SDS, 0.1% (w/v); EDTA (1mM); followed by distilled water. Working solution pH = 7.7.	Denaturing SDS-PAGE for medium to large-sized proteins
MES-SDS	Each litre of 1x working solution contains: MES (50mM final stock concentration); Tris Base (50mM); SDS, 0.1% (w/v); EDTA (1mM); followed by distilled water. Working solution pH = 7.3.	Denaturing SDS-PAGE for small- to medium- sized proteins; faster than MOPS



Ponceau S

Ponceau S staining solution is reusable and available in a convenient 500ml volume for membrane staining and early protein detection following transfer before western blotting. Ponceau S may also be supplied a powder staining kit for long-term storage.

ultra pure water

BP GRADE Purified water (18 mega Ohms) for use with sensitive experimental procedures often needs verifying as pyrogen free, this is done using the LAL test or Limulus (Horseshoe crab) amoebocyte lysate assay. The LAL test is extremely sensitive to endotoxins which are the result of bacterial lysis.

BP Grade Sterile Water has endotoxins removed by electrostatic filtration at the final purification stage prior to autoclaving. The LAL tested water conforms to the standard having less than <0.25EU/ml to ensure the water is of pre-requisite quality. This product is therefore pyrogen free. CFU>0 WFI compatible.

LAL (Limulus Amoebocyte Lysate Assay)

RNase-Free Water

DEPC-treated to eliminate enzyme activity and then autoclaved, this sterile highly purified water product is perfect for use in PCR and Northern blotting techniques. RNase-free water is available either as a single 250ml bottle or in fifty 5ml aliquots to prevent cross-contamination.

ORDERING INFORMATION

Powder Buffers

TGSDSP	Powdered Tris-Glycine-SDS Running buffer - 10 Sachets (10 litres/pk)
TGP	Powdered Tris-Glycine Running buffer - 10 Sachets (10 litres/pk)
TTSDSP	Powdered Tris-Tricine-SDS Running buffer - 10 Sachets (10 litres/pk)
MSDSP	Powdered MOPS-SDS buffer Running buffer - 10 Sachets (10 litres/pk)
MESDSP	Powdered MES-SDS buffer Running buffer - 10 Sachets (10 litres/pk)

Liquid Buffers

TG10X1L	Buffer Tris-Glycine 10 x 1 litre
TG10X5L	Buffer Tris-Glycine 10 x 5 litre
TG-SDS10X1L	Buffer Tris-Glycine SDS 10 x 1 litre
TG-SDS10X5L	Buffer Tris-Glycine SDS 10 x 5 litre

PSS	Ponceau S staining solution (500ml)	PSB	Ponceau S staining solution powder staining kit (makes 2000ml)
UPW1000	BP Grade Sterile Water, 1000ml	RFW50X5	RNase-Free Water, 50x5ml
RFW250	RNase-Free Water, 1x250ml		

protein markers



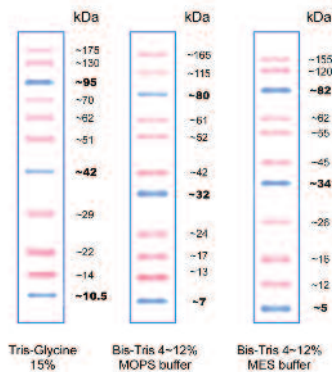
Stable for up to 2 years if stored at -20°C and supplied pre-stained in gel loading buffer for direct loading, PINK Plus and BLUE Wide Range recombinant protein markers are perfect for SDS-PAGE applications. Sizes range from 10-175kDa for PINK Plus and 10-245kDa for BLUE Wide Range, making both markers suitable for accurate molecular weight determination of most cellular proteins.

Each marker is covalently bound to a pink or blue colour chromophore to produce a ladder of evenly interspersed bands of uniform intensity. Coloured reference bands

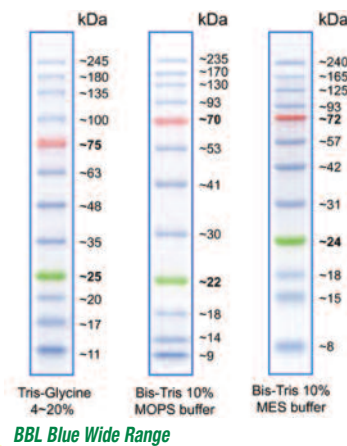
serve as visual indicators of electrophoresis run progression and the efficiency of western transfer onto membranes following SDS-PAGE. Both PINK Plus and BLUE Wide Range markers can be detected at volumes as low as 2.5µl per well.

Technical Specifications

Code	PPL	BBL
Size Range	10-175kDa	10-245kDa
Number of Bands	11	12
Reference Bands	10, 40 and 90kDa blue	25 & 75kDa; green & red
Contents	Max. 2.2mg total protein in 15% (v/v) glycerol, 2% SDS, 20mM Tris pH 7.5, 1mM 2-ME and 3.6M Urea	Max. 2.4mg total protein in 15% (v/v) glycerol, 2% SDS, 20mM Tris pH 7.5, 1mM 2-ME and 3.6M Urea
Volume Supplied	500µl	500µl
Storage	3 months at 4°C & 24 months at -20°C	
Loading Volume	2.5-5µl/well	
Number of Applications	100-200	
Source	Recombinant proteins, various sources	



PPL Pink Plus



BBL Blue Wide Range

- STANDARD (10-175kDa) AND WIDE (10-245kDa) MOLECULAR WEIGHT RANGES AVAILABLE
- COLOURED REFERENCE BANDS FOR EASY IDENTIFICATION IN GELS AND BLOTS
- STABLE FOR 2 YEARS AT -20°C

PVDF sheets & membrane rolls

Used in Western Blotting of Proteins and for use in Hybridisation Techniques. PVDF with nitrocellulose and nylon membranes are available for different application needs.

A protein's properties (i.e., charge, hydrophobicity, etc.) affects its ability to bind to membrane surfaces. Finding the optimal membrane may require experimenting with a specific protein on different materials. PVDF membrane is supplied in sheet form and as a 3M role which can be cut to size to fit a particular need.



blotting membrane rolls

Supplied in 0.24x3m and 0.3x3m (w x l) sizes, allowing them to be cut to match specific gel formats, these membrane rolls are suitable for transfer of proteins and nucleic acids from polyacrylamide and agarose gels. Offered in 0.2µm and 0.45µm pore sizes.

blot-absorbent filter paper

This blot-absorbent filter paper is supplied in packs of 50 and in sizes of 10x10cm and 20x20cm. Its 1mm thick texture and high buffer retention properties, being able to absorb twice its own weight in buffer, allow it to exert the gel-membrane compression needed for efficient transfers.

ORDERING INFORMATION

PPL	Pink Plus Prestained Protein Ladder, 10-175kDa, with 10, 40 & 90kDa reference bands, 1x 500µl vial.	BBL	Blue Wide Range Prestained Protein Ladder, 10-245kDa, with 25 & 75kDa reference bands, 1x 500µl vial.
RNC45	Nitrocellulose roll, 0.3x3m (w x l)	RNY45	Positively charged supported nylon, 0.24x3m (w x l)
RNC2	Nitrocellulose roll, 0.3x3m (w x l)	RNY2	Positively charged supported nylon, 0.24x3m (w x l)
BP1010	Blot-Absorbent Filter paper, 10x10cm, pack of 50	BP2020	Blot-Absorbent Filter paper, 20x20cm, pack of 50
PVDF0.22S	10 Pre-cut PVDF 28 x28 cm 0.22µm	PVDF0.22R	Roll PVDF 28 cm x 3 m, 0.22µm
PVDF0.45S	10 Pre-cut PVDF 28 x28 cm 0.45µm	PVDF0.45R	Roll PVDF 28 cm x 3 m, 0.45µm