Membranes, buffers, stains and filter pads

Cleaver Scientific offers a range of membranes, buffers and stains for protein and nucleic acid blotting applications. New products include blot-absorbent filter paper that maximises gel-membrane compression for efficient blotting, and 'fastPADS', which are ready-to-use western transfer pads that only require leftover PAGE buffer or distilled water to perform rapid high-intensity transfers in standard electroblotters and semi-dry systems.

Transfer buffers

Cleaver Scientific powder buffers and stock solutions are convenient to use and time-saving because they can be made up as and when required without any need to weigh out constituent compounds and make pH adjustments to the reconstituted buffer afterwards.

Electroblotting Transfer Buffers

Towbin Buffer Tris-Glycine base is available in powder sachets to make 1 litre of 1x working solution for wet and semi-dry transfer techniques. Simply mix 800ml of 1x working solution with 200ml of methanol for complete 1x Towbin buffer. Cleaver Scientific Western Transfer Buffer is available as a 10x concentrate and may be mixed with 900ml of distilled water to make a 1x working solution.

Ordering Information	
CSL-TTGP	Powdered Towbin Buffer Tris-Glycine Base – 10 sachets (10 litres/pack)
CSL-WTB	10x Western Transfer Buffer (100ml)

Semi-Dry Transfer Buffers

Available as 1 litre ready-to-use solutions, Cleaver Scientific semi-dry blotting solutions facilitate efficient transfer of proteins to nitrocellulose and PVDF membranes.

Ordering Information	
CSL-SDWB	Semi-dry Western Blot buffer for nitrocellulose (1L)
CSL-SDWBPVDF	Semi-dry Western Blot buffer for PVDF (1L)

- Manufactured from cotton, which, unlike standard cellulose-based paper, absorbs buffer instantly without air bubbles that inhibit transfer
- Available in 10x10cm & 20x20cm
- May also be used as electrode wicks in cellulose acetate membrane applications

Blot-Absorbent Filter Paper

Cleaver Scientific blot-absorbent filter paper is supplied in packs of 50 and in sizes of 10x10cm and 20x20cm. Its 1-mm-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	
CSL-BP1010	Blot-Absorbent Filter paper, 10x10cm, pack of 50
CSL-BP2020	Blot-Absorbent Filter paper, 20x20cm, pack of 50

- Two types offered: nitrocellulose for most blotting applications; positively charged nylon for Southern, northern & dot and slot blots with non-radiolabelled or radiolabelled probes
- 0.2μm pore size prevents sample transfer through the membrane

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 0.2 and 0.45μm pore sizes.

Ordering Information & Technical Specification			
Code	Description	Pore Size	Recommended Applications
CSL-RNC45	Nitrocellulose roll, 0.3x3m (w x L)	0.45μm	For most analytical blotting procedures, including protein, single-stranded DNA & RNA; compatible with colorimetric, radiolabelled, chemiluminescent and fluorescent detection and staining methods
CSL-RNC2	Nitrocellulose roll, 0.3x3m (w x L)	0.2μm	For small proteins <15kDa
CSL-RNY45	Positively charged supported nylon, 0.24x3m (w x L)	0.45μm	For Southern blots and transfer of nucleic acids from agarose and acrylamide gels; rapid alkaline Southern transfer
CSL-RNY2	Positively charged supported nylon, 0.24x3m (w x L)	0.2μm	

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.

Ordering Information	
CSL-PSS	Ponceau S staining solution (500ml)
CSL-PSB	Ponceau S staining solution powder staining kit (makes 2000ml)