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TECHNICAL DATA SHEET Surf-Blot

145055, 145075, 145085, 145105, 145135

Eliminates Cutting Blots into Strips

Why cut your blot into strips? The SURF-BLOT can be used for any technique that formerly required cutting the blot into vertical strips. The SURF-BLOT clamps liquid channels tightly onto the surface of a blot. In a typical experiment, antigens are electrophoresed on a flat-topped gel and blotted. The blot is then clamped into the SURF-BLOT and antibody solutions are incubated in the liquid channels. After rinsing, the blot is removed from the SURF-BLOT and the blot visualization step is performed on the intact blot. Since there are no narrow strips to line up, the entire screening set can be compared on the intact blot.

The SURF-BLOT is the only antibody screening device that has a convex stainless steel backing plate, and has been shown leak-free by the HIV testing lab of the Harvard School of Public Health (for data see www.ideascientific.com).

Use the SURF-BLOT to screen monoclonals¹ or polyclonals². Use the SURF-BLOT 10 or 10.5 for Grid-Blot screening^{3,4}. SURF-BLOT data in U.S. patent application 20120003225 figure 5 display sera autoantibodies that can be used to detect and treat cancer.⁵ Or use the SURF-BLOT to optimize your blot processing conditions by varying the amount and ratios of primary and secondary antibody.

1. Mukherjee, J., et. al., Infection and Immunity, Vol 70, pp. 612-619 (2002). Fig 1 shows monoclonal antibody screening (PMID: 11796590).

2. Piccoli, G. et al., Journal of Physiology, Vol. 543.2, pp. 481-494 (2002). Figure 3. (PMID: 12205183).

Lane, R.D., et. al., Hybridoma, Vol. 8, pp. 661-669 (1989). Grid-Blot screening does not require electrophoresis or blotting. (PMID: 2693340)
Reese, G. et. al., Journal of Chromatography B, Vol. 756, pp. 151-156 (2001). allergic patient screening uses ten times less antibody than ELISA sera screening.(PMID: 11419706)5. www.faqs.org/patents/app/20120003225#b

| PRODUCT DESCRIPTION SURF-BLOT 6 SURF-BLOT 7 SURF-BLOT 9 SURF-BLOT 10 SURF-BLOT 13 SURF-BLOT 5.5 | BEST FOR 8 cm. tall minigels 8 or 10 cm. tall minigels 10 cm. minigels Grid-Blot experiments 15 cm. tall gels 8 cm. tall minigels | NUMBER OF CHANNELS 30 30 30 30 30 21 | CHANNEL LENGTH 6.0 cm. 7.0 cm. 8.9 cm. 10.1 cm. 13.5 cm. 5.5 cm. | CHANNEL WIDTH 1.5 mm. 1.5 mm. 1.5 mm. 1.5 mm. 1.5 mm. 2.5 mm. | MAXIMUM BLOT WIDTH 8.9 cm. 8.9 cm. 8.9 cm. 8.9 cm. 8.9 cm. 9.3 cm. | SAMPLE VOLUME 60-90µl 70-105µl 90-135µl 100-150µl 130-185µl 100-140µl |
|--|--|---|---|--|---|--|
| SURF-BLOT 7.5 SURF-BLOT 8.5 | 8 or 10 cm. tall minigels | 21 21 33 | 7.5 cm. | 2.5 mm. | 9.3 cm. | 100-200µl |
| SURF-BLOT 10.5 SURF-BLOT 13.5 | Criterion [®] gels Grid-Blot experiments large format gels | 55 21 33 | 8.5 cm. 10.5 cm. 13.5 cm. | 2.5 mm. 2.5 mm. 2.5 mm. | 14.7 cm. 9.3 cm. 14.7 cm. | 100-220µl 100-300µl 100-350µl |

Lane Gap

21 Lane Channels: 4.5mm (center to center between lanes)

30 Lane Channels: 3 mm (center to center between lanes)

33 Lane Channels: 4.5 mm (center to center between lanes)