



NADIR® US100 P

Ultrafiltration Membrane

NADIR® US100 is a 100,000 Dalton molecular weight cut off (M.W.C.O.) polysulfone ultrafiltration membrane that is used in a variety of pharmaceutical and biotech applications, such as the treatment of fermentation broth. US100 membrane sheet is available in dry flat sheet rolls and is FDA compliant.

Membrane Characteristics

Membrane Chemistry	Backing Material	Nominal M.W.C.O (Da)	Thickness (µm)
Polysulfone (PSUH)	Polypropylene	100,000	210 - 250

Permeability LMH/bar (GFD/psi) ^a	Retention PVP K85 (%) ^b	pH Range	Chlorine Tolerance ^c
≥ 100 (≥ 4.1)	90.0 – 95.0	1.0 – 14.0	200 ppm (sanitization) at pH ≥ 10.5

a Test conditions: Clean water, 2 bar (29 psi), 20°C (68°F), crossflow operation. Membrane specifications may change without notice as design revisions occur.

b Test conditions: 4% PVP K85, 2 bar (29 psi), 20°C (68°F), crossflow operation.

c For short term cleaning: maximum 50°C (125°F), 30 min.

Important Information

Standard Sizes: NADIR flat sheet membrane is available in an A4 sample size of 210 mm x 297 mm (8.27 in x 11.69 in) and in a nominal roll size of 150 m x 1016 mm (492 ft x 40.0 in). Custom lengths may be available on request.

Initial Flush: MICRODYN-NADIR recommends flushing membrane for 30 minutes and discarding permeate during the flush prior to operation.

Storage: Membrane shipped dry should be stored away from direct sunlight in a cool, dry place. Please see *Membrane Storage Guide – Flat Sheet Membrane* (TSG-O-011).

Solving Unmet Needs with Customized Products



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