96-Well Parallel Dialysis Plate

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A single-use consumable for parallel dialysis of low-volume samples. Open wells support familiar pipetting; an independent tubular membrane beneath each well performs dialysis exchange. One plate processes 96 samples.

Structure and applications

Standard 96-well handling; independent regenerated-cellulose membrane beneath every well; isolated fluid paths with no well-to-well carryover.

- 25 mm membrane: 50–250 µL per well
- 35 mm membrane: 50–400 µL per well
- Standard MWCO: 12 kDa; CV < 5%
- Potted seal provides retention and leak control

Applications include LNP ethanol removal and buffer exchange, protein or peptide desalting, small-molecule removal, and parallel process development.

Operating workflow

1 Prepare — Confirm the membrane specification, working volume, dialysate, and container. Activate the membranes and start dialysate temperature control in advance when used.

2 Load — Add the specified sample volume through the openings on top with a pipette, multichannel pipette, or liquid-handling workstation.

3 Dialyze — Place the plate in the dialysate and fully immerse the active membrane sections. Use about 100× the sample volume of dialysate. For static dialysis, exchange at 2–4 h, 6–8 h, and 10–14 h, then continue for 2 h after the last exchange; controlled continuous renewal is also possible.

4 Recover and analyze — Recover samples from the upper wells. Measure residual salts, ethanol, or other small molecules and confirm recovery and sample-quality criteria.

Models and configurations

Model	Structure	Membrane	Active height	Volume / well
96W-D-ST-25	Standard	25 mm	15 mm	50–250 µL
96W-D-ST-35	Standard	35 mm	25 mm	50–400 µL
96W-D-ST-C-25	Self-contained dialysate	25 mm	15 mm	50–250 µL
96W-D-ST-C-35	Self-contained dialysate	35 mm	25 mm	50–400 µL

Key technical specifications

Item	Specification
Membrane	Regenerated cellulose (RC); standard MWCO 12 kDa
Geometry	ID / wall 6 mm / 0.43 mm; active height 15 mm (-25) / 25 mm (-35)
Working volume	50–250 µL (-25); 50–400 µL (-35)
Operating range	4 °C–50 °C; pH 5–9
Compatibility	$CaCl_2$, $(NH_4)_2SO_4$; isopropanol, ethanol, acetone
Use / storage	Single use; dry, protected from light, ambient storage; 6-month shelf life

Important: Activate dry membranes before use and never allow a wetted membrane to dry. Samples typically swell 1.2–1.5×; leave headroom. Verify compatibility and recovery for high-salt, organic-solvent, viscous, or high-osmolarity samples. Single use. For research and process development use only.