

ДИАЛИЗАТОРЫ D-TUBE



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D-Tube™ Dialyzers

D-Tube™ Dialyzers are easy-to-handle dialyzers in a capped centrifuge tube format with dialysis membrane windows for buffer exchange and removal of solutes like urea or detergents while providing > 97% sample volume recovery from solution. The disposable, single-use tubes require no syringes, centrifuge, or laborious steps to manipulate small sample volumes. The sample is added and removed using a standard laboratory pipet. D-Tube™ Dialyzers are available with molecular weight cut-offs from 3.5 to 14 kDa and are designed with six volume capacities: mini (10–250 µl), midi (50–800 µl), maxi (100–3000 µl), and mega (10, 15, and 20 ml). The membrane is ultra-clean, EDTA-treated regenerated cellulose, sulfur- and heavy metal-free. Each kit contains 10 D-Tube™ Dialyzers (Mega kits available in 10 and 50 pk) and one floating rack that can hold up devices in an exchange buffer.



Electroelution Kit (Cat. No. 71511-3)

Following separation of biomolecules by agarose or polyacrylamide gel electrophoresis, electroelution using D-Tube™ Dialyzers offers a means to extract the sample of interest by applying an electric current to the excised gel band.

- Extraction** ▶ Remove any protein, protein-protein complex, protein-DNA complex, oligonucleotides, RNA and DNA from polyacrylamide or agarose gel
- Recovery** ▶ 90% nucleic acid recovery from agarose or polyacrylamide, and 60% protein recovery from polyacrylamide
- Compatibility** ▶ Recovered sample can be used in MALDI-MS functional assays, HPLC, peptide mapping, and animal immunization for antibody production
- Components** ▶ Three supporting trays that fit most horizontal electrophoresis units and optimized precipitation reagents for nucleic acids and proteins following elution

Minimum electroelution times to extract samples from polyacrylamide and agarose gels

POLYACRYLAMIDE GELS								AGAROSE GELS	
Protein		DNA		RNA		Oligos		DNA	
Protein Size (kDa)	Elution Time* (min)	DNA Fragment Size (bp)	Elution Time† (min)	RNA Fragment Size (nt)	Elution Time‡ (min)	Oligonucleotide Size (nt)	Elution Time† (min)	DNA Fragment Size (bp)	Elution Time* (min)
14	35–45	100	10–20	100	15–25	15–100	10–20	100–200	10–20
19–26	45–55	300	15–25	400	25–35			500–700	15–20
29	55–65	500	20–30	600	35–45			1000	20–30
40	60–70	822	25–35	1000	45–55			4361	25–35
45	65–75	1044	30–40					6557	45–55
50	75–85	2700	45–55					9416	55–65
66	85–95								
81	105–115								
116	120–130								
128	140–150								

Note: electroelution times shown in this table are for D-Tube™ Midi; optimum times depend on the sample contents. For each D-Tube Midi, the gel piece should not exceed 0.5 cm × 1 cm. Additional information about optimum electroelution times for D-Tube™ Mini and Maxi varieties is available in TB422

*Minimum time recommended for elution of protein from a 10% SDS-polyacrylamide gel at 100 V

† Minimum time recommended for elution of DNA or RNA fragments from a native or denaturing 4% polyacrylamide gel at 100–150 V

‡ Minimum time recommended for elution of DNA fragments from a 1% agarose gel at 80–110 V

D-Tube™ Dialyzers



Product	Volume	Size	MWCO (kDa)	Cat No.
D-Tube™ Mini	10 to 250 µl	10 tubes	6 - 8	71504-3
			12 - 14	71505-3
D-Tube™ Midi	50 to 800 µl	10 tubes	3.5	71506-3
			6 - 8	71507-3
D-Tube™ Maxi	100 to 3000 µl	10 tubes	3.5	71508-3
			6 - 8	71509-3
			12 - 14	71510-3
D-Tube™ Mega	3 to 10 ml	10 tubes	3.5	71739-3
		50 tubes	3.5	71739-4
		10 tubes	6 - 8	71740-3
		50 tubes	6 - 8	71740-4
D-Tube™ Mega	10 to 15 ml	10 tubes	3.5	71742-3
		50 tubes	3.5	71742-4
		10 tubes	6 - 8	71743-3
		50 tubes	6 - 8	71743-4
D-Tube™ Mega	15 to 20 ml	10 tubes	3.5	71745-3
		50 tubes	3.5	71745-4
		10 tubes	6 - 8	71746-3
		50 tubes	6 - 8	71746-4
D-Tube96™	10 to 250 µl	1 plate	6 - 8	71712-3
			12 - 14	71713-3
Floating Rack, Mini		10 racks		71512-3
Floating Rack, Midi		10 racks		71513-3
Floating Rack, Maxi		10 racks		71514-3
Floating Rack, Mega		10 racks		71748-3

Fast and Easy Sample Dialysis for Buffer Exchange, Sample Desalting or Sample Concentration

Each sample is unique. Give it the special treatment it deserves with a perfectly designed dialysis device. Choose the right device from Merck Millipore's portfolio of sample dialysis tools, featuring the Amicon® Ultra line of centrifugal filters and D-Tube™ Dialyzers.

- Amicon Ultra centrifugal filters give you the fastest, most efficient concentration for most sensitive downstream applications
- D-Tube Dialyzers give you a gentle way to concentrate intractable or sensitive samples and prevent them from precipitation or over-concentration



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