

Filtration centrifugal filters

Filter devices, centrifugal tubes, Amicon® Ultra

72



Concentration of biological samples containing antigens, antibodies, enzymes, nucleic acids, or microorganisms; purification of macromolecular components found in tissue culture extracts or cell lysates; concentration of dilute or pre-purified proteins from column eluents; desalting or diafiltration.

- Recovery of concentrated sample >90%
- Direct pipettor sample access eliminates a processing step
- High recovery Ultracel® low binding ultrafiltration membrane
- Vertical design reduces polarisation and is compatible with all rotor types
- Transparent filter allows you to see concentrated sample
- Heat-sealed Ultracel® membrane eliminates adhesives and the risk of downstream extractables
- Minimise spin times, maximise results

Ultra-fast spin times - Concentrate or diafilter 4mL to 15mL sample volumes in as little as 15min with Amicon® Ultra devices. They are compatible with all rotor types.

High recovery - Amicon® Ultra 4mL to 15mL devices incorporate Ultracel® regenerated cellulose membrane providing maximum recovery. The hydrophilic microstructure ensures the lowest possible adsorption of protein and other macromolecules, and the highest recovery of fully functional proteins. Retentate recovery is typically >90%.

Membrane MWCO	Solute/concentration	Retentate volume, mL	Concentration factor, X	Retentate recovery, %
10,000	Cyto C (0.25mg/mL)	0.24	61.65	93.03
30,000	BSA (1mg/mL)	0.30	50.99	97.94
100,000	IgG (1mg/mL)	0.28	53.39	89.03

Ultracel™ membrane selection guide

Molecular weight cut-offs range from 10,000 to 100,000 and are designed for use with a range of sample types to provide maximum sample recoveries. Choose the membrane that will retain 95% or greater of the molecular weight of your target sample.

Membrane NMWL	Protein Solute MWCO	UF Rejection
10,000	Cytochrome c 2,400	>95%
30,000	BSA 67,000	>95%
100,000	IgG Fr II 156,000	>90%

UF Rejection = percentage of product/solute that is retained by the UF membrane

Maximum centrifugal force for Amicon® Ultra-4 and Amicon® Ultra-15

	4mL	15mL
Swing out bucket	4,000xg	4,000xg
		3,500xg for concentrated/viscous solutions
Fixed angle (23°, 35° and 45°)	7,500xg	5,000xg

① 4mL

Catalogue No	Alt. No	MWCO, kDa	Pack qty
FDR-588-408K	UFC800308	3	8
FDR-588-409Y	UFC800324	3	24
FDR-588-410A	UFC800396	3	96
FDR-588-010Q	UFC801008	10	8
FDR-588-030K	UFC801024	10	24
FDR-588-050E	UFC801096	10	96
FDR-588-070V	UFC803008	30	8
FDR-588-090P	UFC803024	30	24
FDR-588-110M	UFC803096	30	96
FDR-588-102L	UFC805008	50	8
FDR-588-104H	UFC805024	50	24
FDR-588-106D	UFC805096	50	96
FDR-588-130G	UFC810008	100	8
FDR-588-150A	UFC810024	100	24
FDR-588-170R	UFC810096	100	96

② 15mL

Catalogue No	Alt. No	MWCO, kDa	Pack qty
FDR-588-108W	UFC900308	3	8
FDR-588-124B	UFC900324	3	24
FDR-588-196W	UFC900396	3	96
FDR-588-190L	UFC901008	10	8
FDR-588-210L	UFC901024	10	24
FDR-588-230C	UFC901096	10	96
FDR-588-250T	UFC903008	30	8
FDR-588-270N	UFC903024	30	24
FDR-588-290H	UFC903096	30	96
FDR-588-302D	UFC905008	50	8
FDR-588-304W	UFC905024	50	24
FDR-588-306S	UFC905096	50	96
FDR-588-310E	UFC910008	100	8
FDR-588-330V	UFC910024	100	24
FDR-588-250P	UFC910096	100	96