

Filtration

centrifugal tubes



Filtration centrifugal tubes, Amicon® Ultra



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	4,000 x g	4,000 x g 3,500 x g for concentrated/viscous solutions
Fixed angle (23°, 35° and 45°)	7,500 x g	5,000 x g

4mL

Catalogue No	Legacy No	Alt. No	MWCO, kDa	Pack qty
10191813	-	UFC800308	3	8
10384823	-	UFC800324	3	24
10283383	-	UFC800396	3	96
10640753	-	UFC801008	10	8
10341782	-	UFC801024	10	24
10158911	-	UFC801096	10	96
10677872	-	UFC803008	30	8
10687872	-	UFC803024	30	24
10210342	-	UFC803096	30	96
10131842	-	UFC805008	50	8
10254762	-	UFC805024	50	24
10264762	-	UFC805096	50	96
10540962	-	UFC810008	100	8
10638262	-	UFC810024	100	24
10698062	-	UFC810096	100	96

15mL

Catalogue No	Legacy No	Alt. No	MWCO, kDa	Pack qty
10705884	-	UFC900308	3	8
10403892	-	UFC900324	3	24
10092423	-	UFC900396	3	96
10608072	-	UFC901008	10	8
10781543	-	UFC901024	10	24
10026941	-	UFC901096	10	96
10581342	-	UFC903008	30	8
10311882	-	UFC903024	30	24
10036941	-	UFC903096	30	96
10550443	-	UFC905008	50	8
10661043	-	UFC905024	50	24
10413892	-	UFC905096	50	96
10250482	-	UFC910008	100	8
10188431	-	UFC910024	100	24
10447871	-	UFC910096	100	96