

ЦЕНТРИФУЖНЫЕ ФИЛЬТРЫ AMICON ULTRA-15



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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://millipore.nt-rt.ru> || <mailto:mer@nt-rt.ru>

Amicon® Ultra-15 Centrifugal Filter Devices

for volumes up to 15 mL

Amicon® Ultra-15 10K device for in vitro diagnostic use

Amicon® Ultra-15 3K, 30K, 50K, and 100K devices for
research use only; not for use in diagnostic procedures



Introduction

Amicon® Ultra-15 centrifugal filter devices provide fast ultrafiltration, with the capability for high concentration factors and easy concentrate recovery from dilute and complex sample matrices. The vertical design and available membrane surface area provide fast sample processing, high sample recovery (typically greater than 90% of dilute starting solution), and the capability for 80-fold concentration. Typical processing time is 15 to 60 minutes depending on Nominal Molecular Weight Limit (NMWL). Solute polarization and subsequent fouling of the membrane are minimized by the vertical design, and a physical deadstop in the filter device prevents spinning to dryness and potential sample loss. The concentrate is collected from the filter device sample reservoir using a pipettor, while the ultrafiltrate is collected in the provided centrifuge tube. The device can be spun in a swinging bucket or fixed angle rotor. Amicon® Ultra-15 devices are supplied non-sterile and are for single use only.

The Amicon® Ultra-15 product line includes 5 different cutoffs (Nominal Molecular Weight Limit, NMWL, or Molecular Weight Cutoff, MWCO):

- Amicon® Ultra 3K device — 3,000 NMWL
- Amicon® Ultra 10K device — 10,000 NMWL
- Amicon® Ultra 30K device — 30,000 NMWL
- Amicon® Ultra 50K device — 50,000 NMWL
- Amicon® Ultra 100K device — 100,000 NMWL

CE Amicon® Ultra-15 10K filter devices are for in vitro diagnostic use and can be used to concentrate serum, urine, cerebrospinal fluid, and other body fluids prior to analysis.

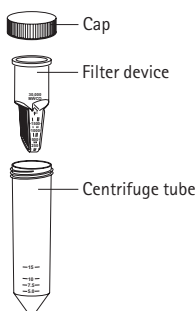
Amicon® Ultra-15 3K, 30K, 50K, and 100K filter devices are for research use only and not for use in diagnostic procedures.

Applications

- Concentration of biological samples containing antigens, antibodies, enzymes, nucleic acids (DNA/RNA samples, either single- or double-stranded), microorganisms, column eluates, and purified samples
- Purification of macromolecular components found in tissue culture extracts and cell lysates, removal of primer, linkers, or molecular labels from a reaction mix, and protein removal prior to HPLC
- Desalting, buffer exchange, or diafiltration

Materials Supplied

The Amicon® Ultra-15 device is supplied with a cap, a filter device, and a centrifuge tube.



Required Equipment

- Centrifuge with swinging bucket or fixed angle rotor with wells/carriers that can accommodate 50 mL tubes
- CAUTION: To avoid damage to the device during centrifugation, check clearance before spinning.
- Pipettor with 200 microliter (μ L) tip for concentrate recovery

Suitability

Preliminary recovery and retention studies are suggested to ensure suitability for intended use. See the "How to Quantify Recoveries" section.

Device Storage and Shelf Life

Store at 15–30 °C. Shelf life is 3 years from date of manufacture. For cat. nos. UFC901008, UFC901024, and UFC901096, refer to expiration date on package label.

Chemical Compatibility

Amicon® Ultra centrifugal devices are intended for use with biological fluids and aqueous solutions. Before use, check the sample for chemical compatibility with the device.

Table 5. Chemical Compatibility of Amicon® Ultra Filter Devices

Acids	Concentration		Concentration
Acetic acid	≤ 50%*	Phosphoric acid	≤ 30%
Formic acid	≤ 5%*	Sulfamic acid	≤ 3%
Hydrochloric acid	≤ 1.0 M	Sulfuric acid	≤ 3%
Lactic acid	≤ 50%	Trichloroacetic acid (TCA)	≤ 10%*
Nitric acid	≤ 10%	Trifluoroacetic acid (TFA)	≤ 30%*

Alkalis

Ammonium hydroxide	≤ 10%	Sodium hydroxide	≤ 0.5 M
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Alcohols

n-Butanol	≤ 70%	Isopropanol	≤ 70%
Ethanol	≤ 70%	Methanol	≤ 60%

Detergents

Alconox® detergent	≤ 1%	Sodium dodecyl sulfate (SDS)	≤ 0.1%
CHAPS detergent	≤ 0.1%	Tergazyme® detergent	≤ 1%
Lubrol® PX detergent	≤ 0.1%	Triton® X-100 surfactant	≤ 0.1%
Nonidet™ P-40 surfactant	≤ 2%	Tween® 20 surfactant	≤ 0.1%
Sodium deoxycholate	≤ 5%		

Organic solvents

Acetone	not recommended	Ethyl acetate	not recommended
Acetonitrile	≤ 20%	Formaldehyde	≤ 5%
Benzene	not recommended	Pyridine	not recommended
Carbon tetrachloride	not recommended	Tetrahydrofuran	not recommended
Chloroform	not recommended	Toluene	not recommended
Dimethyl sulfoxide (DMSO)	≤ 5%*		

Miscellaneous

Ammonium sulfate	Saturated	Phenol	≤ 1%
Diethyl pyrocarbonate	≤ 0.2%	Phosphate buffer (pH 8.2)	≤ 1 M
Dithiothreitol (DTT)	≤ 0.1 M	Polyethylene glycol	≤ 10%
Glycerine	≤ 70%	Sodium carbonate	≤ 20%
Guanidine HCl	≤ 6 M	Tris buffer (pH 8.2)	≤ 1 M
Imidazole	≤ 100 mM	Urea	≤ 8 M
Mercaptoethanol	≤ 0.1 M		

* Contact with this chemical may cause materials to leach out of the component parts. Solvent blanks are recommended to determine whether leachables represent potential assay interferences.

Specifications

Maximum initial sample volume

Swinging bucket	15.0 mL
Fixed angle rotor	12.0 mL

Typical final concentrate volume 150–300 µL

Maximum relative centrifugal force

Swinging bucket rotor	4,000 × g
Fixed angle rotor	5,000 × g

Active membrane area 7.6 cm²

Dimensions

Filter device in tube (capped)	
Length: 122 mm (4.8 in.)	Diameter: 29.7 mm (1.2 in.)
Filter device	
Length: 72.0 mm (2.8 in.)	Diameter: 29.6 mm (1.2 in.)

Materials of Construction

Filter device	Copolymer styrene/butadiene
Membrane	Ultracel® low binding regenerated cellulose
Filtrate tube	Polypropylene
Filtrate cap and liner	Polyethylene

Product Ordering Information

This section lists the catalogue numbers for Amicon® Ultra Ultrafiltration Devices.

Initial volume (mL)	Final concentrate volume (µL)	Product	Qty / pk	3K	10K	30K	50K	100K
0.5	15–20	Amicon® Ultra–0.5 device	8	UFC500308	UFC501008	UFC503008	UFC505008	UFC510008
			24	UFC500324	UFC501024	UFC503024	UFC505024	UFC510024
			96	UFC500396	UFC501096	UFC503096	UFC505096	UFC510096
			500	UFC5003BK	UFC5010BK	UFC5030BK	UFC5050BK	UFC5100BK
Amicon® Ultra–0.5 Collection Tubes			96	UFC50VL96				
2	15–70	Amicon® Ultra–2 pre-launch device	24	UFC200324PL	UFC201024PL	UFC203024PL	UFC205024PL	UFC210024PL
4	50–100	Amicon® Ultra–4 device	8	UFC800308	UFC801008*	UFC803008	UFC805008	UFC810008
			24	UFC800324	UFC801024*	UFC803024	UFC805024	UFC810024
			96	UFC800396	UFC801096*	UFC803096	UFC805096	UFC810096
15	150–300	Amicon® Ultra–15 device	8	UFC900308	UFC901008*	UFC903008	UFC905008	UFC910008
			24	UFC900324	UFC901024*	UFC903024	UFC905024	UFC910024
			96	UFC900396	UFC901096*	UFC903096	UFC905096	UFC910096

* Amicon® Ultra–4 and –15 10K devices are for in vitro diagnostic use. All other devices are for research use only.

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