Featured Products

Amicon® Ultra Centrifugal Filters

Fast and Easy Protein Concentration

Amicon® Ultra Centrifugal filters provide fast sample processing and promote high sample recoveries, even in dilute samples, through ultrafiltration. The unique features of the Amicon® Ultra centrifugal filters give you the fastest, most efficient concentration for sensitive downstream applications.

Amicon® Ultra Centrifugal Filter Advantages:

Maximize Concentration with Highest Protein Recovery – True Engineered Dead Stop

- Avoids spinning to dryness
- Provides a predictable concentration factor
- No need to calibrate for several samples to run in parallel

Reverse Spin Recovery

- Reverse spin devices enable you to maximize protein recovery, especially with small dilute samples, without introducing pipetting errors
- Low binding membrane and polypropylene housing for >90% sample recovery

Ultracel® Low-binding Membranes

Fast and Efficient Concentration without Compromise

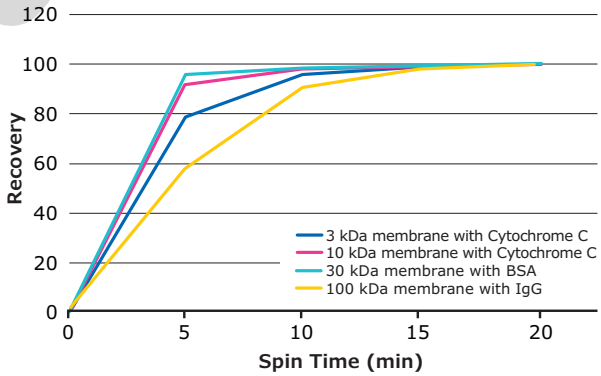
- Vertical membrane design aligns with filtrate rather than perpendicular for less clogging, less waste, and faster filtration
- Ultra-fast sample processing achieving concentration in as little as 10 minutes
- 25- to 80-fold concentration in a single step

Broad Chemical Compatibility

- Heat-sealed membrane eliminates adhesives and downstream extractables
- Large spectrum of compatibility
- Compatible with pH 1 to 9

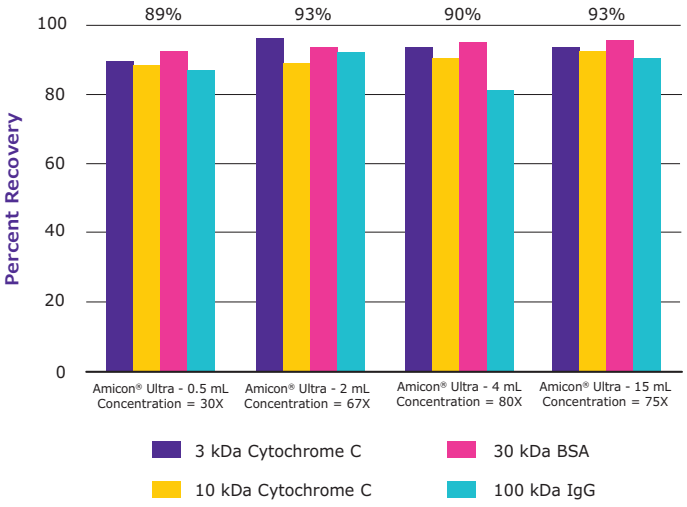
Reliable Samples

- Spin precious samples with confidence in one robust, sleek unit that prevents leakage



Amicon® Ultra 4 mL Filters – Fast Spin Times with Excellent Recovery

Amicon® Ultra 4 mL filters were tested for percent recovery and spin time.



Consistently high recovery of diverse proteins with Amicon® Ultra filters

Concentration and percent recovery using Amicon® Ultra Filters: 4 different devices (Amicon® Ultra-0.5 mL, Amicon® Ultra-2 mL, Amicon® Ultra-4 mL, Amicon® Ultra-15 mL devices) were tested (3 kDa membrane with Cytochrome C, 10 kDa membrane with Cytochrome C, 30 kDa membrane with BSA and 100 kDa membrane with IgG) to determine percent recovery and concentration factor.

To select an Amicon® Ultra Centrifugal Filter, identify the starting volume, molecular weight of protein or nucleic acid being concentrated, final volume and concentration factor.

Then consult the product selection chart below to choose the Amicon® Ultra filter with the right nominal molecular weight cutoff (NMWCO).

	Amicon® Ultra-0.5 filter	Amicon® Ultra-2 filter	Amicon® Ultra-4 filter	Amicon® Ultra-15 filter
Starting Volume	**< 0.5 mL**	**< 2 mL**	**< 4 mL**	**< 15 mL**
Molecular Weight (MW)				
Proteins				
	NMWCO (Da)			
6 < MW < 20 k	3,000	3,000	3,000	3,000
20 < MW < 60 k	10,000	10,000	10,000	10,000
60 < MW < 100 k	30,000	30,000	30,000	30,000
100 < MW < 200 k	50,000	50,000	50,000	50,000
200 k < MW	100,000	100,000	100,000	100,000
Length				
Single-Stranded and Double-Stranded Nucleic Acids				
	NMWCO (Da)			
137–1159 bp	30,000	30,000	30,000	30,000
Particle Diameter (DIA)				
Nanoparticles				
	NMWCO (Da)			
1.5 < dia < 3 nm	3,000	3,000	3,000	3,000
3 < dia < 5 nm	10,000	10,000	10,000	10,000
5 < dia < 7 nm	30,000	30,000	30,000	30,000
7 < dia < 10 nm	50,000	50,000	50,000	50,000
10 nm < dia	100,000	100,000	100,000	100,000

NMWCO: Nominal Molecular Weight Cut Off

10,000 NMWCO Amicon® Ultra-4 and -15 filters are both CE marked and registered for *in vitro* diagnostic use.

Once you've chosen the right Amicon® Ultra filter for your needs, choose your rotor, G force and spinning time for concentrating your molecule. Designed as standard 1.5 mL, 15 mL conical or 50 mL conical tubes, Amicon® Ultra filters fit all stardard rotor types.

Choose a rotor and G force

Starting Volume	< 0.5 mL	< 2 mL	< 4 mL	< 15 mL
Final Volume	15–20 µL	15–70 µL	50 µL	200 µL
Design of the Device	Standard 1.5 mL	Standard 15 mL	Standard 15 mL	Standard 50 mL
Fixed-Angle (35 º) Rotor	14,000 g 1,000 g reverse spin	7,500 g 1,000 g reverse spin	5,000 g for 100,000 7,500 g for all other MWCO	5,000 g
Swinging Bucket Rotor	N/A	4,000 g 1,000 g reverse spin	4,000 g	4,000 g

Concentration Factor

Final Volume	15–20 µL with reverse spin	15–70 µL with reverse spin	50 µL	200 µL
Concentration Factor	X25–X30	X14–X67	X80	X75

Adjust spinning time

For Proteins and Nanoparticles

NMWCO (Da)				
3,000	30 min.	60 min.	40 min.	40 min.
10,000	15 min.	40 min.	15 min.	20 min.
30,000	10 min.	20 min.	10 min.	20 min.
50,000	10 min.	15 min.	10 min.	15 min.
100,000	10 min.	30 min.	10 min.	15 min.

Single-Stranded and Double-Stranded Nucleic Acids

30,000	10 min.	15 min., fixed angle 40 min., swinging rotor	10 min., 5,000 g, fixed angle	10 min., 5,000 g, fixed angle

Amicon® Ultra Centrifugal Filters

	Product	Amicon® Ultra-0.5 filter	Amicon® Ultra-2 filter	Amicon® Ultra-4 filter	Amicon® Ultra-15 filter
	Maximum initial sample volume (mL)	0.5	2	4	15
	Final concentrate (retentate) volume (µL)	15–20	15–70	30–70	150–300
NMWCO (Da)	**Qty/Pk**				
3,000	8	**UFC500308**		**UFC800308**	**UFC900308**
	24	**UFC500324**	**UFC200324**	**UFC800324**	**UFC900324**
	96	**UFC500396**		**UFC800396**	**UFC900396**
	500	**UFC5003BK**			
10,000	8	**UFC501008**		**UFC801008**	**UFC901008**
	24	**UFC501024**	**UFC201024**	**UFC801024**	**UFC901024**
	96	**UFC501096**		**UFC801096**	**UFC901096**
	500	**UFC5010BK**			
30,000	8	**UFC503008**		**UFC803008**	**UFC903008**
	24	**UFC503024**	**UFC203024**	**UFC803024**	**UFC903024**
	96	**UFC503096**		**UFC803096**	**UFC903096**
	500	**UFC5030BK**			
50,000	8	**UFC505008**		**UFC805008**	**UFC905008**
	24	**UFC505024**	**UFC205024**	**UFC805024**	**UFC905024**
	96	**UFC505096**		**UFC805096**	**UFC905096**
	500	**UFC5050BK**			
100,000	8	**UFC510008**		**UFC810008**	**UFC910008**
	24	**UFC510024**	**UFC210024**	**UFC810024**	**UFC910024**
	96	**UFC510096**		**UFC810096**	**UFC910096**
	500	**UFC5100BK**			

Amicon® Ultra-4 and -15 Centrifugal Filters, registered for IVD use

Description	NMWCO	Qty/Pk	Catalog No.
Amicon® Ultra-4 Centrifugal Filter	10 KDa	8	**UFC801008D**
		24	**UFC801024D**
		96	**UFC801096D**
Amicon® Ultra-15 Centrifugal Filter	10 KDa	8	**UFC901008D**
		24	**UFC901024D**
		96	**UFC901096D**