

Centrisart

Centrisart is a ready to use unit for small volume centrifugal ultrafiltration to separate proteins from low molecular weight substances in biological samples.

Centrisart I features a unique design, ultrafiltration in the opposite direction to the centrifugal force. This is so effective in preventing premature blockage of the filter that even whole blood samples can be deproteinized. The ultrafiltrate is collected in the floater insert tube, where it is readily accessible without removing the tube.



Typical applications include:

- Drug binding studies
- Determination of metabolites in serum
- Protein removal from blood samples
- Cleaning of liposomes Virus removal

Performance Characteristics			
	Time to filter 50% of sample volume	Time to filter 90% of sample volume	Passage of sample species
BSA 1.0 mg/ml			
5,000 MWCO	300 min	N/A	0%
10,000 MWCO	35 min	80 min	2%
20,000 MWCO	9 min	20 min	2%
IgG 0.25 mg/ml			
100,000 MWCO	13 min	35 min	3%
Blue Dextran 0.1 mg/ml			
300,000 MWCO	9 min	25 min	28%

Specifications

Capacity	max. 2.5 ml sample, min. 500 µl
Centrifugal force	max. 2,500 x g (swing bucket rotor) or 2,000 x g (fixed angle rotor)
Filter diameter	10 mm
Filtration area	0.79 cm ²
Residual volume	approx. 100 µl of concentrate

Dimensions

Max outer diameter 14 mm

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Overall length 93 mm

Materials of Construction

Centrifuge tube Polystyrene

Inner floater tube Cellulose propionate

Cap Polyethylene

cellulose triacetate (5, 10 and 20 kDa units)

Polyethersulfone ultrafilters (100kD and 300 kDa units)

Ordering Information		
CENTRISART	units	Prod. No.
5,000 MWCO CTA	12	13229-E
10,000 MWCO CTA	12	13239-E
20,000 MWCO CTA	12	13249-E
100,000 MWCO PES	12	13269-E
300,000 MWCO PES	12	13279-E
Starter pack (3 units each of 5k, 10k, 20k, 100k)	12	13209-E