

Centrisart I

Protein-free ultrafiltrates even from difficult to filter samples

Centrisart I 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

References

P. Nebinger and M. Koel

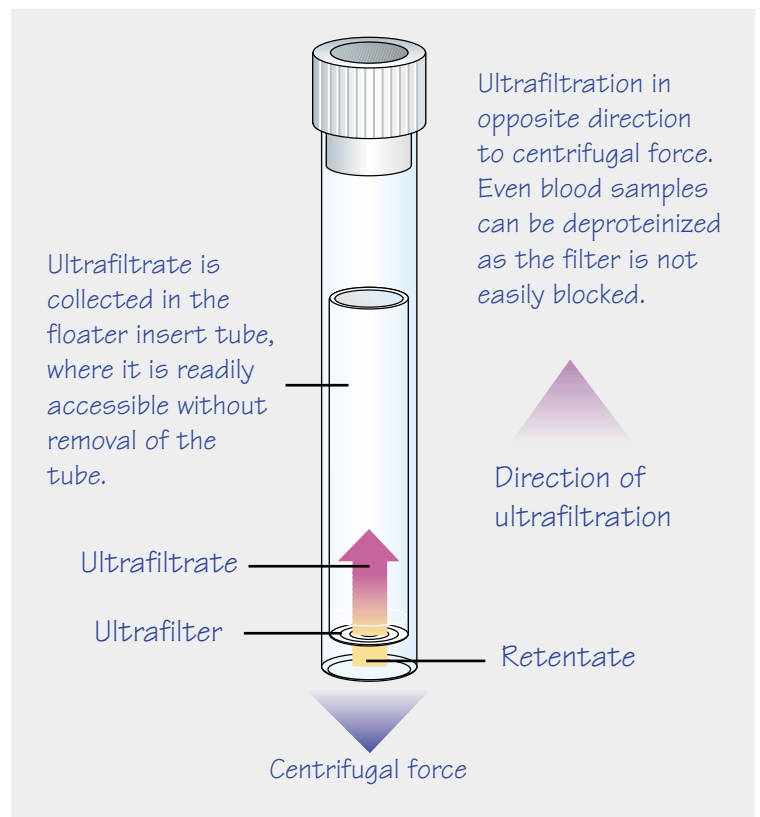
Determination of acyclovir by ultrafiltration and high-performance liquid chromatography
J. Chromatography 619, 342-344 (1993)

F. da Fonseca-Wollheim, K.-G. Heinze, K. Lomsky and H. Schreiner

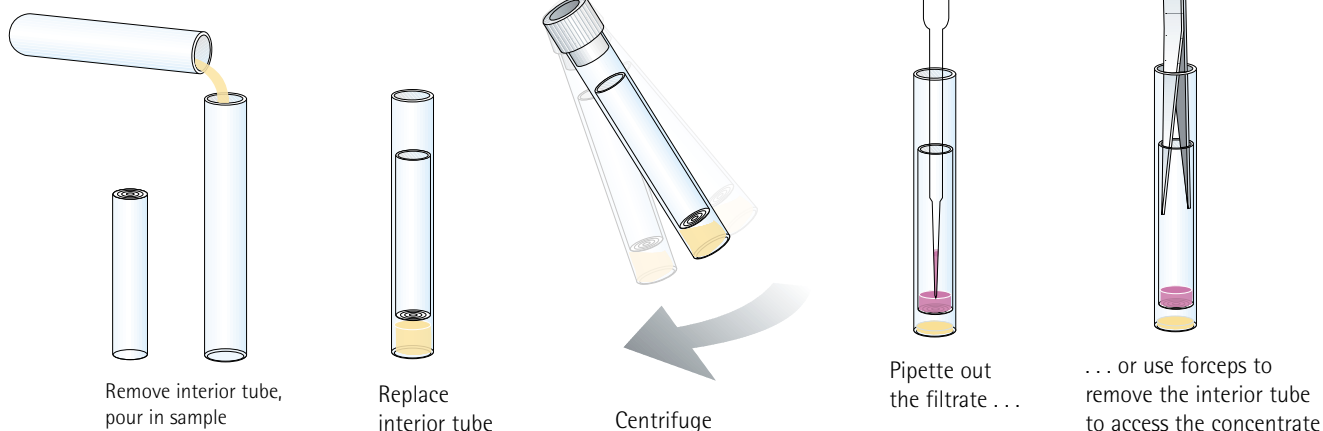
Serum ultrafiltration for the elimination of endogenous interfering substances in creatinine determination
J.Clin.Chem.Clin.Biochem. 26, 523-525 (1988)

R. H. Christenson, S. D. Studenberg, S. Beck-Davis and F. A. Sedor

Digoxin-like immunoreactivity eliminated from serum by centrifugal ultrafiltration before fluorescence polarization immunoassay of digoxin
Clinical Chemistry 33, 606-608 (1987)



Easy to use



Typical Performance*	Time to filter 50% of sample volume	Time to filter 90% of sample volume	Passage of sample species
BSA 1.0mg/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%

*2.5ml samples were loaded into each device.

The devices were centrifuged at 2,000xg until the required filtrate volumes had been reached.

Ordering	Pack Size	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

Specifications	
Capacity	max. 2.5ml sample, min. 500µl
Centrifugal force	max. 2,500 x g (swinging bucket rotor) or 2,000 x g (fixed angle rotor)
Dimensions	14mm max outer dia. 93mm overall length
Filter diameter	10mm
Filtration area	0.79cm ²
Residual volume	approx. 100µl of concentrate
Materials	polystyrene centrifuge tube, cellulose propionate inner floater tube, polyethylene cap, cellulose triacetate (5,10 and 20kD units) and polyethersulfone ultrafilters (100kD and 300kD units)

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