

4ml / 15ml Centrifugal Filter



INTRODUCTION

The centrifugal filter devices provide rapid and efficient concentration and purification of up to 15ml of biological samples. The unique vertical design and maximum filtration area provide fast sample processing and high sample recovery rate (typically greater than 90% of dilute starting solution), while maintaining a gentle concentration environment to preserve protein activity and conformation. 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 wide selection of ultrafiltration molecular weight cut-off (MWCO) devices incorporate PES membrane, which is very low in protein and nucleic acid binding.

FEATURES

- High recovery and flow rate;
- Low bio-molecule binding rate, high chemical compatibility;
- Anti-drainage locking design prevents damage to samples caused by over-centrifuging;
- Variety of pore size specifications to meet different MWCO requirements.

APPLICATIONS

Ultra-filtration centrifugal filter:

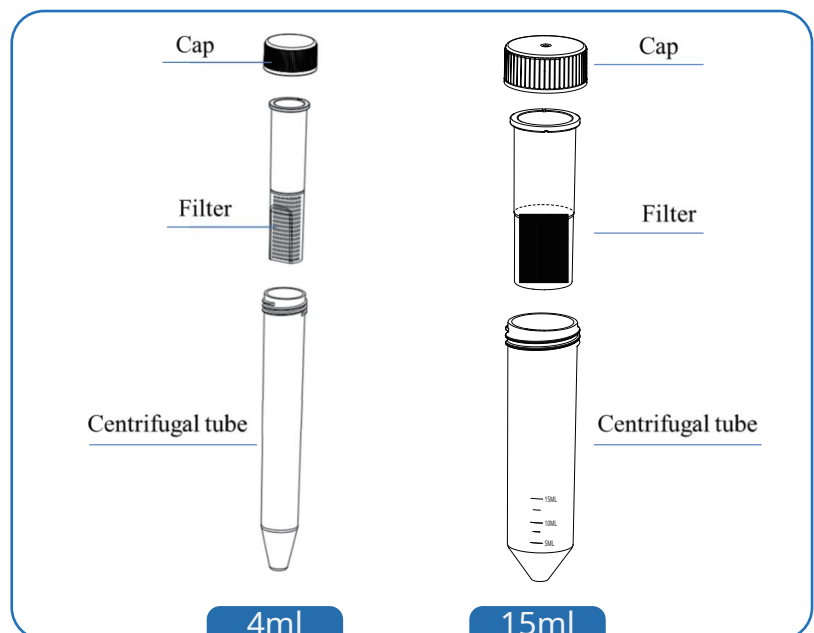
- Concentrate and desalt proteins, nucleic acids
- Buffer exchange or desalting of chromatographic components
- Harvest bio-molecules from culture media
- Virus concentration or isolation
- Coarse separation of bio-molecule mixtures
- Removal of debris and particles from cell lysates

Micro-filtration centrifugal filter:

- Isolate DNA from agarose gel
- Separation of proteins, oligonucleotides and RNA from polyacrylamide gels
- Sample clarification before HPLC analysis
- Media removal of cells
- Filter biological samples
- Collect and clean processed particles or beads
- Fill chromatographic media for analytical procedures or process development

STRUCTURE

The centrifugal filter includes a cap, a filter and a centrifuge tube.



SPECIFICATION

Product Cat.	4ml	15ml
Filter Material	PC/BS(Butadiene & Styrene copolymers)	PC (Polycarbonate)
Membrane	Polyethersulfone	
Filtrate tube	Polypropylene	
Filtrate cap and liner	Polypropylene	
Effective filter area	3.5 cm ²	7.2 cm ²
Overall Size Filters in test tubes (capped)	Length 122mm Diameter 17mm	Length 117mm Diameter 31mm
Filter Dimension	Length: 67.5 mm Diameter: 14.5 mm	Length: 75 mm Diameter: 28 mm
Maximum sample volume	4ml	15ml
Maximum filtrate volume	6ml	17ml
Retention volume	20µl	20µl
Locking volume	50-100µl	300µl
Operating temperature	0-40°C	
pH range	1-14	
Maximum centrifugal force(ultra filtration):	Swing bucket rotor 4000x g	
	Fixed angle rotor 5000x g	
Maximum centrifugal force (Micro filtration):	Fixed angle rotor 12000x g	
Centrifuge type	Centrifuge standard 15 ml conical tubes	Centrifuge standard 50 ml conical tubes
Sterilization:	Non-sterile, Can be disinfected and sterilized by filtering 70% ethanol through the equipment.	



ORDER INFORMATION

Cat. No.	Description	Qty/pk
UTPES040005N	4ml, PES, 5KD	24 pcs
UTPES040010N	4ml, PES, 10KD	24 pcs
UTPES040030N	4ml, PES, 30KD	24 pcs
UTPES040050N	4ml, PES, 50KD	24 pcs
UTPES040100N	4ml, PES, 100KD	24 pcs
MTPES040010N	4ml, PES, 0.1µm	24 pcs
MTPES040022N	4ml, PES, 0.2µm	24 pcs
MTPES040045N	4ml, PES, 0.45µm	24 pcs
UTPES150005N	15ml, PES, 5KD	12 pcs
UTPES150010N	15ml, PES, 10KD	12 pcs
UTPES150030N	15ml, PES, 30KD	12 pcs
UTPES150050N	15ml, PES, 50KD	12 pcs
UTPES150100N	15ml, PES, 100KD	12 pcs
MTPES150010N	15ml, PES, 0.1µm	12 pcs
MTPES150022N	15ml, PES, 0.2µm	12 pcs
MTPES150045N	15ml, PES, 0.45µm	12 pcs



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