

JetSpin® Centrifugal Filters



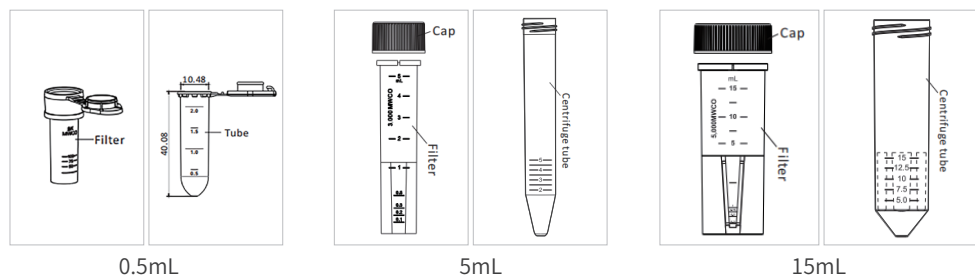
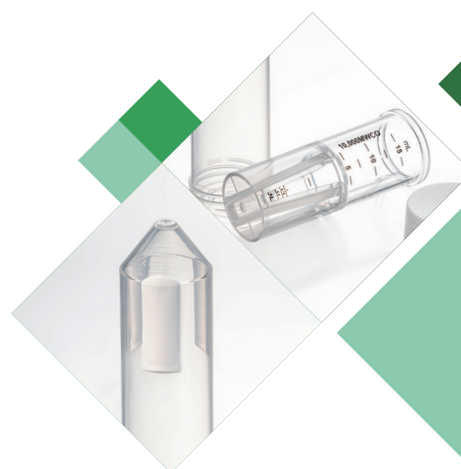
JetSpin® centrifugal filters are newly upgraded with vertical single-sided/dual-sided filter membranes and support bones, which have a larger active membrane area, higher flow rate and stronger structure for rapid filtration and concentration of samples; the filter membranes are made of polyether-sulfone PES with high throughput, strong hydrophilicity and low protein adhesion for excellent performance. The products are strictly controlled in accordance with ISO 13485 and ISO 9001 standards, and undergo strict leak-proof and chemical compatibility tests to ensure quality.



Specifications: 0.5mL 5mL 15mL
 Molecular weight cut off (MWCO): 5KD 10KD 30KD 50KD 100KD
 Outer tube: Polypropylene (PP)
 Filter: Methacrylate-Butadiene-Styrene (MBS)
 Filter membrane: Polyethersulfone (PES)
 Tube cap: High-density polyethylene (HDPE)
 Conforming to USP Class VI standards

Characteristics

- ◆ All materials are confirming to USP Class VI . In total, five molecular weight cut-off (MWCO) options are available, meeting the needs of filtering molecules in different sizes.
- ◆ The filter is structurally designed with a high-performance vertical single- (0.5 mL)/double-sided (5 mL & 15 mL) PES filtration membrane, featuring a larger effective filtration area and a higher flow rate.
- ◆ The 5 mL and 15 mL tubes are provided with supports, improving the stability of the structure, supporting a higher centrifugal speed, and reducing the filtration time.
- ◆ The protein recovery is increased to over 80%.
- ◆ There is a printed scale and a white area for writing on the tube, facilitating the identification and marking.
- ◆ DNase-free, RNase-free, non-pyrogenic



Warning: The product is inapplicable to solutions containing benzene, acetone, and chloroform.



Table1 - Protein Recovery of JetSpin® Centrifugal Filters

Specification	JetSpin® 0.5mL		JetSpin® 5mL				JetSpin® 15mL			
	Fixed angle rotor		Swinging bucket rotor		Fixed angle rotor		Swinging bucket rotor		Fixed angle rotor	
Initial sample volume	0.5mL		4mL		4mL		15mL		12mL	
	Time (min)	Recovery (%)	Time (min)	Recovery (%)	Time (min)	Recovery (%)	Time (min)	Recovery (%)	Time (min)	Recovery (%)
Cytochrome c (0.25 mg/mL) 5,000 MWCO PES	15	91	45	92	45	93.40	30	86	30	94
BSA (1 mg/mL) 10,000 MWCO PES	5	87	20	95	20	94.45	30	86	30	85
BSA (1 mg/mL) 30,000 MWCO PES	5	92	10	99	10	88	20	98	20	98
BSA (1 mg/mL) 50,000 MWCO PES	5	85	10	91	10	91	15	85	15	88
IgG (0.5 mg/mL) 100,000 MWCO PES	5	84	10	89	10	94	20	84	20	86

Test conditions: For JetSpin® 0.5 mL/5 mL/15 mL, fixed angle rotor of 10,000 g/5,000 g/4,000 g and swinging bucket rotor of 4,000 g/3,000 g for centrifugation, ambient temperature, an initial sample volume of 0.5 mL/4 mL/15 mL for the swinging bucket rotor, and 12 mL for the fixed angle rotor, n = 6/4/2 (taking the average of the data obtaining from n groups of samples, and obtain the data of each group by testing 4 centrifugal filters), and overall protein recovery over 80%.

Ordering Information

Cat. No.	Specification (mL)	Effective Filtration Area (cm ²)	Maximum Initial Sample Volume	Sterilization	MWCO (KDa)	Maximum Centrifugal Force (Fixed Angle Rotor) xg	Maximum Centrifugal Force (Swinging Bucket Rotor) xg	Qty. per Box/Case
FTT105105	0.5	0.65	0.5 mL for fixed angle rotor	N	5	10000	-	25/300
FTT110105	0.5	0.65		N	10	10000	-	25/300
FTT130105	0.5	0.65		N	30	10000	-	25/300
FTT150105	0.5	0.65		N	50	10000	-	25/300
FTT100105	0.5	0.65		N	100	10000	-	25/300
FTT105150	5	3.5	4 mL for fixed angle rotor	N	5	5000	4000	24/96
FTT110150	5	3.5		N	10	5000	4000	24/96
FTT130150	5	3.5		N	30	5000	4000	24/96
FTT150150	5	3.5		N	50	5000	4000	24/96
FTT100150	5	3.5		N	100	5000	4000	24/96
FTT405500	15	9.7	12 mL for fixed angle rotor	N	5	4000	3000	8/96
FTT505500	15	9.7		N	5	4000	3000	24/96
FTT410500	15	9.7		N	10	4000	3000	8/96
FTT510500	15	9.7		N	10	4000	3000	24/96
FTT430500	15	9.7		N	30	4000	3000	8/96
FTT530500	15	9.7		N	30	4000	3000	24/96
FTT450500	15	9.7		N	50	4000	3000	8/96
FTT550500	15	9.7		N	50	4000	3000	24/96
FTT400500	15	9.7		N	100	4000	3000	8/96
FTT500500	15	9.7		N	100	4000	3000	24/96

