

Vivaspin 15

2 - 15 ml samples

The Vivaspin 15 concentrator is a disposable ultrafiltration device for use in fixed angle or swing bucket rotors accommodating 50 ml tubes. Vivaspin 15 is used for the concentration of biological samples in the 2 - 15 ml range. The innovative design (US Patent no. 5,647,990, second patent pending), simplicity, speed and exceptional concentrate recoveries are the main features of the concentrator.

In a single spin, 15 ml solutions can be concentrated up to 300x. Samples can be typically concentrated in 10-30 minutes with macromolecular recoveries in excess of 95%. The longitudinal membrane location and adjacent thin channel, provide optimum cross flow conditions even for particle laden solutions, the centrifugal force pulling particles and solids away from the membrane to the bottom of the device. Macromolecules collect in an impermeable 50 μ l concentrate pocket integrally moulded below the membrane surface, thereby eliminating the risk of filtration to dryness.



Performance Characteristics		
	Time to concentrate up to 30x [min.] at 20°C	Concentrate recovery %
Start volume	15 ml	15 ml
Centrifugal force	2,000 g	7,500 g
BSA 1 mg/ml (66,000 MW)		
5,000 MWCO	40	97%
10,000 MWCO	25	97%
30,000 MWCO	25	96%
50,000 MWCO	25	96%
100,000 MWCO	15	70%
Cytochrome c 0.25 mg/ml (12,400 MW)		
5,000 MWCO	55	97%
10,000 MWCO	45	95%
30,000 MWCO	45	59%
50,000 MWCO	45	40%
100,000 MWCO	20	16%
IgG 0.25 mg/ml (160,000 MW)		
30,000 MWCO	30	94%
50,000 MWCO	30	94%



100,000 MWCO	30	90%
Yeast 1.0 mg/ml (<i>S. Cerevisiae</i>)		
100,000 MWCO	15	98%
0.2 µm PES	7	95%

Technical specifications

Concentrator capacity

Swing bucket rotor 150 ml

Fixed angle rotor 8 ml

Dimensions

Total Length 76 mm

Width 25.5 mm

Active membrane Area 4 cm²

Hold-up volume of membrane <20 µl

Dead stop volume 50 µl

Materials of construction

Body Polycarbonate

Filtrate vessel Polypropylene

Concentrator cap Polycarbonate

Membrane Polyethersulfone

Ordering information - Requires 50 ml centrifuge tubes

Vivaspin 15 Polyethersulfone	Pack size	Prod. no.
5,000 MWCO	10	VS1511
5,000 MWCO	40	VS1512
10,000 MWCO	10	VS1501
10,000 MWCO	40	VS1502
30,000 MWCO	10	VS1521
30,000 MWCO	40	VS1522

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50,000 MWCO	10	VS1531
50,000 MWCO	40	VS1532
100,000 MWCO	10	VS1541
100,000 MWCO	40	VS1542
0.2 µm	10	VS1571
0.2 µm	40	VS1572
Starter pack (2 of each 5 k, 10 k, 30 k, 50 k, 100 k)	10	VS15S1
Accessories		
Conical bottom 50 ml tubes and lids	100	VSA001

Equipment required	
Centrifuge	
Rotor type	Swing bucket or Fixed angle
Minimum rotor angle	25°
Rotor cavity	30 x 114 mm conical bottom tubes or 29 x 104 mm round bottom tubes
Minimum effective speed	1,000 g
Recommended speed	2,000 g
Maximum speed	3,000 g
Concentrate recovery	
Pipette type	Fixed or variable volume
Recommended tip	Thin gel loader type