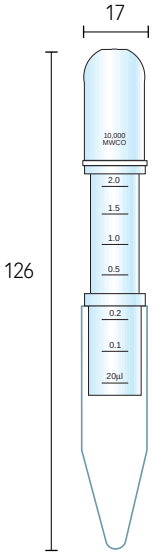
0.4 - 2 ml samples

The Vivaspin 2 bridges the gap between the 500 µl and 4 ml centrifugal concentrators. This device combines the speed of the classic Vivaspin products with low internal surface and membrane area for superior recoveries from very dilute solutions.

Available with a choice of PES, Cellulose Triacetate, Regenerated Cellulose and Hydrosart® membranes, Vivaspin 2 offers the highest flexibility for process optimisation.

Also unique to the Vivaspin 2, is the choice of directly pipetting the concentrate from the dead stop pocket built into the bottom of the concentrator, or alternatively reverse spinning into the concentrate recovery cap which can then be sealed for storage. Both methods result in near total concentrate recoveries.



Technical specifications	Vivaspin 2
Concentrator capacity	
Swing bucket rotor	3 ml
Fixed angle rotor	2 ml
Dimensions	
Total length	126 mm
Width	17 mm
Active membrane area	1.2 cm^2
Hold-up volume of membrane	<10 µl
Dead stop volume	8 µl
Materials of construction	
Body	Polycarbonate
Filtrate vessel	Polycarbonate
Concentrator cap	Polycarbonate
Membrane	PES, CTA, RC, HY

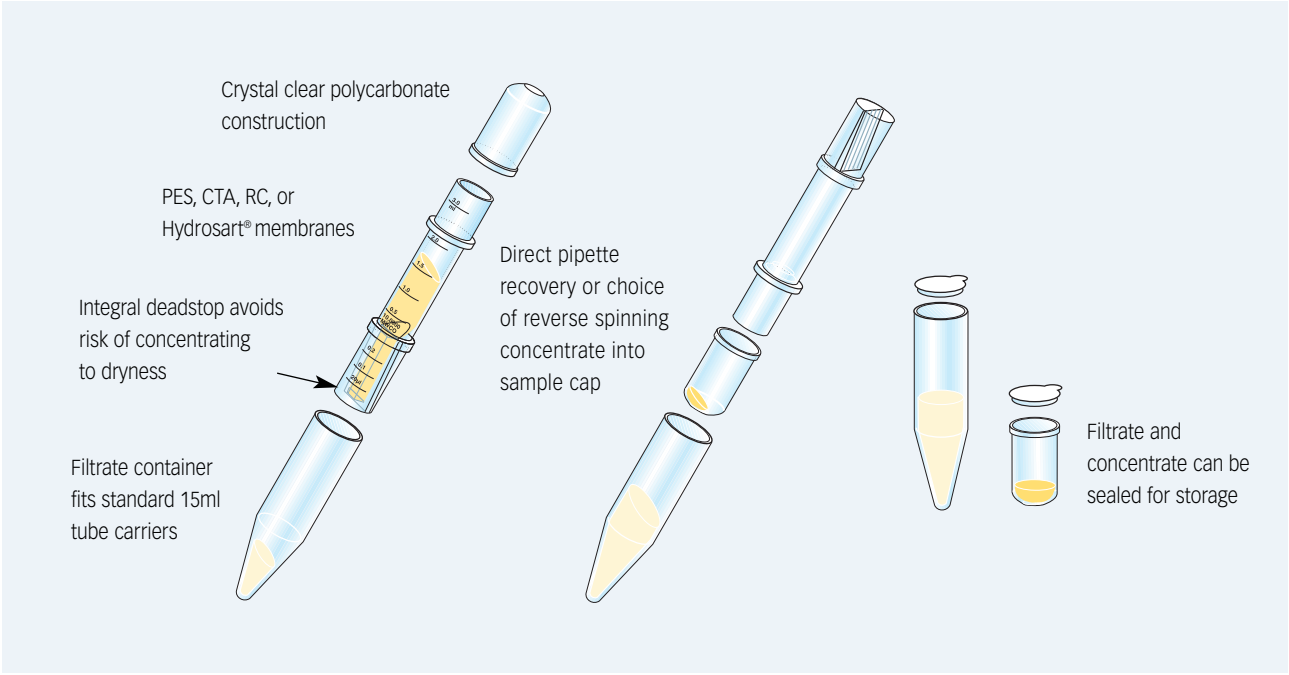
Vivaspin 2

Equipment required	Vivaspin 2	
Centrifuge		
Rotor type	Swing bucket	Fixed angle
Minimum rotor angle	-	25°
Rotor cavity	To fit 15 ml (17 mm) conical bottom tubes	To fit 15 ml (17 mm) conical bottom tubes
Maximum speed	4,000 g	12,000 g*
Concentrate recovery		
Pipette type	Fixed or variable volume	Fixed or variable volume
Recommended tip	Thin gel loader type	Thin gel loader type

* Please note, devices with membrane MWCO >100,000 kDa need to be processed at lower g forces. See data sheets for details.

Typical performance	Time to concentrate 30x min. at 20˚C and solute recovery %	
Rotor	Fixed angle	
Centrifugal force	5,000 g	
Start volume	2 ml	
	Min.	Rec.
Aprotinin 0.25mg/ml (6,500 MW)		
3,000 MWCO PES	50	96 %
BSA 1.0 mg/ml (66,000 MW)		
5,000 MWCO PES	12	98 %
5,000 MWCO CTA	50	96 %
5,000 MWCO Hydrosart	22	98 %
10,000 MWCO PES	8	98 %
10,000 MWCO RC	14	98 %
10,000 MWCO CTA	10	96 %
10,000 MWCO Hydrosart	12	98 %
20,000 MWCO CTA	5	96 %
30,000 MWCO PES	8	97 %
30,000 MWCO RC	5	98 %
30,000 MWCO Hydrosart	5	97 %
IgG 0.25 mg/ml (160,000 MW)		
20,000 MWCO CTA	6	97 %
30,000 MWCO PES	10	96 %
30,000 MWCO RC	9	97 %
50,000 MWCO PES	10	96 %
100,000 MWCO PES	8	95 %
100,000 MWCO RC	4	96 %

Vivaspin 2



Ordering information

Vivaspin 2 Polyethersulfone	Pack size	Prod. no.
3,000 MWCO	25	VS0291
3,000 MWCO	100	VS0292
5,000 MWCO	25	VS0211
5,000 MWCO	100	VS0212
10,000 MWCO	25	VS0201
10,000 MWCO	100	VS0202
30,000 MWCO	25	VS0221
30,000 MWCO	100	VS0222
50,000 MWCO	25	VS0231
50,000 MWCO	100	VS0232
100,000 MWCO	25	VS0241
100,000 MWCO	100	VS0242
300,000 MWCO	25	VS0251
300,000 MWCO	100	VS0252
1,000,000 MWCO	25	VS0261
1,000,000 MWCO	100	VS0262
0.2 µm	25	VS0271
0.2 µm	100	VS0272
Starter pack (5 of each 5 k, 10 k, 30 k, 50 k, 100 k)	25	VS02S1

Vivaspin 2 Cellulose triacetate	Pack size	Prod. no.
5,000 MWCO	25	VS02U1
5,000 MWCO	100	VS02U2
10,000 MWCO	25	VS02V1
10,000 MWCO	100	VS02V2
20,000 MWCO	25	VS02X1
20,000 MWCO	100	VS02X2
Vivaspin 2 Regenerated cellulose		
10,000 MWCO	25	VS02K1
10,000 MWCO	100	VS02K2
30,000 MWCO	25	VS02L1
30,000 MWCO	100	VS02L2
100,000 MWCO	25	VS02M1
100,000 MWCO	100	VS02M2
Vivaspin 2 Hydrosart		
2,000 MWCO	25	VS02H91
2,000 MWCO	100	VS02H92
5,000 MWCO	25	VS02H11
5,000 MWCO	100	VS02H12
10,000 MWCO	25	VS02H01
10,000 MWCO	100	VS02H02
30,000 MWCO	25	VS02H21
30,000 MWCO	100	VS02H22

Ordering Tips

- Choose a membrane pore size at least 50% smaller than the size of the molecule to be retained.
- Usually choose Polyethersulfone membranes for fastest concentrations.
- Usually choose Cellulose Triacetate for Protein Removal/Ultrafiltrate recovery.
- Usually choose Hydrosart® membranes for highest recovery with Ig fractions.