

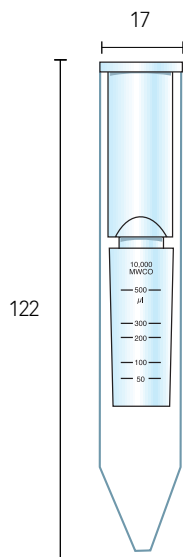
Vivaspin 4

1 - 4 ml samples

Vivaspin 4 ml concentrators are disposable ultrafiltration devices for the concentration of biological samples. Maximum initial sample volumes range from 1 ml to 4 ml. They can be effectively used in either swing bucket or fixed angle rotors accepting 15 ml centrifuge tubes.

The patented vertical membrane design and thin channel filtration chamber (US 5,647,990) minimises membrane fouling and provides high speed concentrations, even with particle laden solutions.

Vivaspin 4 is available with the high flux polyethersulfone membrane which is recommended for most solutions.



Technical specifications	Vivaspin 4
Concentrator capacity	
Swing bucket rotor	4 ml
Fixed angle rotor	4 ml
Dimensions	
Total length	122 mm
Width	17 mm
Active membrane area	2.0 cm ²
Hold-up volume of membrane	< 10 µl
Dead stop volume	20 µl
Materials of construction	
Body	Polycarbonate
Filtrate vessel	Polypropylene
Concentrator cap	Polycarbonate
Membrane	Polyethersulfone

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Equipment required	Vivaspin 4	
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	10,000 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	4 ml	
	Min.	Rec.
BSA 1.0 mg/ml (66,000 MW)		
5,000 MWCO PES	15	96%
10,000 MWCO PES	10	96%
30,000 MWCO PES	10	95%
IgG 0.25 mg/ml (160,000 MW)		
30,000 MWCO PES	10	95%
50,000 MWCO PES	10	95%
100,000 MWCO PES	10	95%

Ordering information		
Vivaspin 4 Polyethersulfone	Pack size	Prod. no.
5,000 MWCO	25	VS0413
5,000 MWCO	100	VS0414
10,000 MWCO	25	VS0403
10,000 MWCO	100	VS0404
30,000 MWCO	25	VS0423
30,000 MWCO	100	VS0424
50,000 MWCO	25	VS0433
50,000 MWCO	100	VS0434
100,000 MWCO	25	VS0443
100,000 MWCO	100	VS0444
0.2 µm	25	VS0473
0.2 µm	100	VS0474
Starter pack (5 of each 5 k, 10 k, 30 k, 50 k, 100 k)	25	VS04S3