



Filter devices, centrifugal tubes, Vivaspin®



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Vivaspin® 500 (100µL to 500µL)

500µL centrifugal filter units offer a simple, one step procedure for sample preparation. They can effectively be used in either swing out or fixed angle rotors accepting 2.2mL centrifuge tubes. The patented vertical membrane design and thin channel filtration chamber minimises membrane fouling and provides high speed concentration, even with particle laden solutions.

Vivaspin® 2 (0.4mL to 2mL)

Combines the speed of the classic Vivaspin® products with low internal surface and membrane area for superior recoveries from very dilute solutions. With Vivaspin® 2 there is a 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.

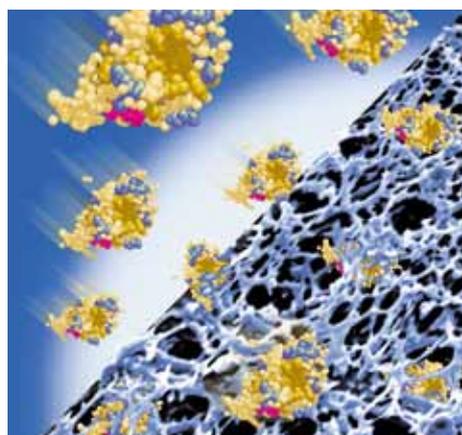
Vivaspin® 4 (1mL to 4mL)

Vivaspin® 4mL concentrators are disposable ultrafiltration devices for the concentration of biological samples. Maximum initial sample volume range from 1mL to 4mL. They can be effectively used in either swing bucket or fixed angle rotors accepting 15mL centrifuge tubes. The patented vertical membrane design and thin channel filtration chamber minimises membrane fouling and provides high speed concentrations, even with particle laden solutions. Vivaspin® 4 is available with the high flux polyethersulfone membrane range that is recommended for most solutions.

Vivaspin® 6 (2mL to 6mL) and Vivaspin® 20 (5mL to 20mL)

Developed to offer increased volume flexibility and performance compared to 15mL products. Both products feature twin vertical membranes for unparalleled filtration speeds and 100 plus concentrations. Remaining volume is easy to read off the painted scale on the side of the concentrator and the modified dead stop pocket further simplifies direct pipette recovery of the final concentrate.

Vivaspin® 20 can also be used as a pressure-fugation system. This is a unique Vivascience® method that combines gas pressure with centrifugation. This can reduce process time up to 50%. Please contact our Technical Support team (contact details may be found on the inside front cover).



Technical Specification - Specific

	Vivaspin® 500	Vivaspin® 2	Vivaspin® 4
Concentrator capacity	100 to 500µL	3.0mL swing out, 2.0mL fixed angle	4.0mL swing out, 4.0mL fixed angle
Centrifuge rotor, fixed angle or swing-out	11mm cavity (2.2mL tubes)	17mm cavity (15mL tubes)	17mm cavity (15mL tubes)
Centrifugal force [max.], g	500 to 12,000 (recommended)	5,000 (recommended)	5,000 (recommended)
Effective filtration area, cm ²	0.5	1.2	2.0
Hold up volume, µL	<5 (membrane and support)	<10 (membrane and support)	<10 (membrane and support)
Dead stop volume, µL	5	8	20
Materials of construction	Polypropylene filtrate collection tube, polycarbonate concentrator body/sleeve	Polycarbonate filtrate collection tube, polycarbonate concentrator body/sleeve	Polycarbonate filtrate collection tube, polycarbonate concentrator body/sleeve
	Vivaspin® 6	Vivaspin® 20	
Concentrator capacity	6mL swing out, 6mL 25° fixed angle	20mL (swing out), 14mL (25° fixed angle), 15mL with pressure cap	
Dimensions [l x w], mm	122 x 16	116 x 28	
Effective filtration area, cm ²	2.5	6.0	
Carrier required	17mm (insert dia.), 15mL (conical bottom tube)	29mm (insert dia.), 50mL (conical bottom tube)	
Centrifugal force [max.], g	3,000 (swing out), 7,500 (25° fixed angle)	3,000 (swing out), 6,000 (25° fixed angle)	
Pressure, bar	-	5	
Hold up volume, µL	<10 (membrane)	<20 (membrane)	
Dead stop volume, µL	30	50	
Materials of construction	Polycarbonate body and filtrate vessel, polypropylene concentrator cap, polyethersulfone membrane	Polycarbonate body and filtrate vessel, polypropylene concentrator cap, polyethersulfone membrane	