

Filtration centrifugal tubes, Vivaspin®



Vivaspin® 500 (100µL to 500µL)

500µL centrifugal filter units offer a simple, one step procedure for sample preparation. For 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 2.0mL)

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 (fixed angle)	3.0mL (swing out), 2.0mL (fixed angle)	4.0mL (swing out), 4.0mL (fixed angle)
Carrier required, conical bottom tube, mL	2.2 (11mm cavity)	15 (17mm cavity)	15 (17mm cavity)
Rotor speed, rpm (recommended)	15,000 (fixed angle)	4,000 (swing out), 8,000 to 12,000 (fixed angle)	4,000 (swing out), 7,000 to 10,000 (fixed angle)
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, polyethersulfone membrane	Polycarbonate filtrate collection tube, polycarbonate concentrator body/sleeve, PES, CTA or HY membrane	Polypropylene filtrate collection tube, polycarbonate concentrator body/sleeve, polyethersulfone membrane
	Vivaspin® 6	Vivaspin® 20	
Concentrator capacity	6.0mL (swing out), 6.0mL (25° fixed angle)	20mL (swing out), 14mL (25° fixed angle), 15mL (with pressure cap)	
Carrier required, conical bottom tube, mL	15 (17mm cavity)	50 (30mm cavity)	
Rotor speed, rpm, (recommended)	4,000 (swing out), 6,000 to 10,000 (fixed angle)	3,000 to 5,000 (swing out), 6,000 to 8,000 (fixed angle), 2,000 to 3,000 (pressure-fuge)	
Effective filtration area, cm ²	2.5	6.0	
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	
Pressure, bar	-	5	
Dimensions [l x w], mm	122 x 17	116 x 30 (125 x 30 with pressurehead)	

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