

Vivacell 250

50 - 250 ml samples

The Vivacell 250 is a totally new concept for the concentration of larger biological samples. This product offers numerous advantages when compared to stirred cells. One size handles a volume range from under 50 ml to 250ml. The easy-to-fit membrane insert enables rapid change of membrane.

Simple is best!

Use free standing on a bench top or in a refrigerator for maximum simplicity, or use on laboratory shaker for fastest concentrations.

The unique conical dead stop built into the bottom of the membrane insert allows concentrations to under 1ml.

The gentle vortex action controls membrane polarisation whilst greatly reducing the shear effects typical of stirring mechanisms.

Set up or membrane replacement takes just a few seconds. Quick connect fittings and simple screw closure further enhance ease of use.



Performance Characteristics						
Time to concentrate up to 20x [min.] at 20°C 4 bar pressure	100 ml Start Volume			250 ml Start Volume		
	time min.		solute recovery	time min.		solute recovery
	orbital shake	free standing	%	orbital shake	free standing	%
BSA 1.0 mg/ml (66,000 MW)						
5,000 MWCO PES	19	70	98%	40	140	99%
10,000 MWCO PES	12	45	97%	28	100	98%
30,000 MWCO PES	12	45	96%	28	100	98%
Globulins 0.25 mg / ml (160,000 MW)						
30,000 MWCO PES	25	120	96%	55	240	98%
50,000 MWCO PES	25	120	94%	55	240	98%
100,000 MWCO PES	25	120	96%	58	240	98%

Specifications

Concentrator capacity	50 - 250 ml
Max pressure	4bar (60psi)
Active membrane area	40cm ²
Hold-up vol. memb. & support	<200µl

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Dead stop volume	600µl
Dimensions	
Width	116mm
Height (incl. pressure indicator)	235mm

Materials of Construction

Screw closure	acetal
Pressure head	acetal
Quick release connector	acetal
Concentrator body/sleeve	polycarbonate
Filtrate container	polycarbonate

Ordering Information		
Vivacell 250 membrane inserts	units	Prod. No.
5,000 MWCO PES	5	VC2511
10,000 MWCO PES	5	VC2501
30,000 MWCO PES	5	VC2521
50,000 MWCO PES	5	VC2531
100,000 MWCO PES	5	VC2541
0.2 µm	5	VC2571
Starter kit (one of each membrane)	5	VC25S1

Equipment Required		
Item Description	Units	Prod. No.
2 - 4 bar air or inert gas pressure source with pressure regulator. orbital shaker capable of handling one litre boxes at 100-300 rpm recommended for fastest filtration		
Vivacell 250 complete with pressure head, pressure indicator/over-pressure release valve, 2 sample reservoirs and filtrate vessels, quick release connection to APC	1	VCA250
Vivacell 250 Maintenance Kit. (Includes one concentrator and filtrate container, and "O" ring seals for pressure head)	1	VCA009
Air Pressure Controller (APC) (Includes over pressure safety, female coupling, 4 mm pressure tubing with male and female couplings and 6 mm pressure tubing)	1	VCA002

Replacement Female coupling	1	VCA010
Replacement Male coupling	1	VCA011
Replacement Pressure Indicator/Over pressure relief valve	1	VCA008
4 mm OD Pressure tubing (3m)	1	VCA012