

VIVAPRODUCTS

Protein Purification and Separation Technologies

Your Source for Clinical & Forensic Concentrators

Call us at 800-456-4633

Vivacon® 500

DNA and protein concentration and rebuffering up to 500 µl



Vivacon® centrifugal concentrators offer the optimal solution for DNA and protein concentration and buffer exchange applications using their high recovery Hydrosart® membrane.

Vivacon® Applications

- DNA rebuffering of organic extraction samples before sequencing reaction.
- Dye removal after sequencing reaction
- Primer removal
- Plasmid concentration
- Protein concentration
- Protein rebuffering

For larger volumes up to 2 ml Vivacon 2 with identical features is available.

Feature	Benefit
Low binding material	High recoveries of low sample concentrations
Re-spin possibility	Complete and highly reproducible sample recovery

Technical Specifications

Concentrator Capacity

Fixed angle rotor	0.5 ml
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Dimensions

Total length (Concentration)	45 mm
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Total length (Back-spin)	47.5 mm
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Width	12.4 mm
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Active membrane area	0.32 cm ²
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Hold-up volume membrane and support	< 5 µl
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Dead stop volume	5 µl (40° rotor)
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Equipment Required

Centrifuge

Rotor type	Fixed angle
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Minimum rotor angle	40°
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Rotor cavity	To fit 1.5 2.2 ml (11 mm) conical bottom tubes
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Maximum speed	14,000 g*
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Materials of Construction

Body	Polycarbonate
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Filtrate vessel	Polypropylene
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Membrane	Hydrosart®
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*Please note: Vivacon® 500 devices with membrane MWCO > 100 kDa need to be processed at lower g forces. See manuals for details.

NOW
Available in PCR Grade

Performance Characteristics

Vivacon® 500 for DNA

Start volume 0.5 ml, sample concentration 50 ng/ml DNA

	Sample size (bp)	Time to concentrate up to 30 \times [min.] at 20°C	Concentrate recovery %	g-force (xg)
2,000 MWCO	10	60 min	93%	7,500
10,000 MWCO	30	25 min	94%	7,500
30,000 MWCO	50	18 min	88%	5,000
50,000 MWCO	300	18 min	91%	5,000
100,000 MWCO	600	10 min	87%	3,000

Vivacon® 500 for Proteins

Start volume 0.5 ml, sample and concentration of proteins as specified in table

	Sample	Time to concentrate up to 30 \times [min.] at 20°C	Concentrate recovery %	g-force (xg)
2,000 MWCO	0.25 mg/ml cytochrome c	30 min	95%	14,000
10,000 MWCO	0.25 mg/ml cytochrome c	15 min	92%	14,000
30,000 MWCO	1.0 mg/ml BSA	10 min	95%	14,000
50,000 MWCO	1.0 mg/ml BSA	10 min	92%	14,000
100,000 MWCO	1.0 mg/ml bovine IgG	11 min	90%	8,000

Conversion Table for Hydrosart MWCO to Nucleotide Cut-Off

Membrane	MWCO	Double-Stranded Nucleotide Cut-Off (bp)
Hydrosart®	2 kDa	> 10
Hydrosart®	10 kDa	> 30
Hydrosart®	30 kDa	> 50
Hydrosart®	50 kDa	> 300
Hydrosart®	100 kDa	> 600

Ordering Information

Vivacon® 500	Pack Size	Product Number
2,000 MWCO	25	VN01H91
2,000 MWCO	100	VN01H92
2,000 MWCO	500	VN01H93
10,000 MWCO	25	VN01H01
10,000 MWCO	100	VN01H02
10,000 MWCO	500	VN01H03
30,000 MWCO	25	VN01H21
30,000 MWCO	100	VN01H22
30,000 MWCO	500	VN01H23
50,000 MWCO	25	VN01H31
50,000 MWCO	100	VN01H32
50,000 MWCO	500	VN01H33
100,000 MWCO	25	VN01H41
100,000 MWCO	100	VN01H42
100,000 MWCO	500	VN01H43

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