



Vivacon® 2

For DNA concentration and rebuffering up to 2 ml

DNA Concentration



Vivacon® 2 centrifugal concentrators have been designed for DNA concentration and buffer exchange applications with samples up to 2 ml. For optimal performance with very dilute samples, e.g. forensic specimens, Vivacon® 2 is equipped with the patented Hydrosart® regenerated cellulose membrane that guarantees extremely low binding properties and high flux. High recoveries and excellent reproducibility are paired with convenience offered by volume graduation and the molecular weight cut-off printed on individual devices. Vivacon® 2, in comparison to the classical Vivaspin units, features a horizontal membrane design that is preferred by some users for reasons of consistency with previously used procedures and reproducibility. The option of a back-spin step after sample processing assures complete concentrate recovery which is especially important when working with low sample concentrations.

Vivacon® 2 Applications

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

Feature	Benefit
Low binding materials	High recoveries even from diluted samples
Re-spin possibility	Complete and highly reproducible sample recovery
Easy to remove re-spin cap	Convenient sample handling

For smaller volumes up to 500 µl, Vivacon® 500 with otherwise identical features is available. See Datasheet SLL2003-e.

Technical Specifications

Concentrator capacity

Fixed angle rotor	2 ml
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Dimensions

Total length (Concentration)	125 mm
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Total length (Back-spin)	115 mm
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Width	16 mm
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Active membrane area	0.95 cm ²
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Hold-up volume (membrane and support)	10 µl
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Dead stop volume (25° rotor)	55 µl
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Materials of construction

Body	Polycarbonate
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Filtrate vessel	Polypropylene
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Back spin vial	Polypropylene
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Concentrator cap	Polypropylene
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Membrane	Hydrosart®
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Performance Characteristics

Start volume 2 ml, sample concentration 50 ng/ml DNA

	Sample size (bp)	Time to concentrate up to 30x [min.] at 20°C	Concentrate recovery %	RCF (× g)
2,000 MWCO	10	120 min	92%	7,500
10,000 MWCO	30	60 min	94%	5,000
30,000 MWCO	50	60 min	95%	2,500
50,000 MWCO	300	45 min	96%	2,500
100,000 MWCO	600	30 min	93%	2,500

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® 2	Pack size	Prod. No.
2,000 MWCO	25	VN02H91
2,000 MWCO	100	VN02H92
2,000 MWCO	500	VN02H93
10,000 MWCO	25	VN02H01
10,000 MWCO	100	VN02H02
10,000 MWCO	500	VN02H03
30,000 MWCO	25	VN02H21
30,000 MWCO	100	VN02H22
30,000 MWCO	500	VN02H23
50,000 MWCO	25	VN02H31
50,000 MWCO	100	VN02H32
100,000 MWCO	25	VN02H41
100,000 MWCO	100	VN02H42
100,000 MWCO	500	VN02H43

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