



## Vivapore 5 and Vivapore 10 | 20

Biological sample concentration in clinical chemistry



Vivapore Concentrators, left Vivapore 5, right Vivapore 10 | 20

- CE certified
- Easy to use – Minimal hands-on time
- Safe – No cross contamination
- Economical – No need for additional equipment
- Guaranteed sample recovery – Built in dead stop volume

Vivapore concentrators offer exceptional ease of use and flexibility for the concentration of macromolecules from dilute solutions, especially in a clinical environment.

Depending on the configuration and reservoir volume of the Vivapore selected, starting volumes may vary from 1 to 20 ml and up to 400 × concentrations may be achieved.

Membranes used in Vivapore devices are highly hydrophilic and have been specially formulated to provide low protein binding and high filtration speed without the need for pressure or vacuum.

### Features

- Individual, disposable, CE certified units
- Efficient concentration (up to 400 × depending on product selected)
- Printed, easy-to-read graduation marks indicate concentration level
- High speed concentrations, even with particle-laden solutions
- 7,500 Dalton membrane cut off
- Up to 98% recovery rate
- No additional equipment required
- 50 µl dead stop volume – guaranteed sample recovery

### Applications

- Concentration of urine, cerebrospinal fluid or plasma to intensify proteins indicating abnormal or pathological states (e.g. Bence Jones proteins in urine), for analysis by electrophoresis or immunoelectrophoresis.
- Concentrating proteins in urine (Bence-Jones protein)
- Concentrating other clinical samples prior to electrophoresis or immunoelectrophoresis
- Concentration of dilute body fluids (e.g., human milk, saliva, semen, tears, cervical and amniotic fluids, sputum) to intensify proteins indicating abnormal or pathological states
- Improved band visualization of dilute protein solutions prior to electrophoresis
- Cell washing and harvesting
- Buffer exchange or desalting
- Concentrating enzymes or isoenzymes (alkaline phosphatase, lactic dehydrogenase, etc.)

### Easiest operation method

- Pipette sample into device
- Device can be left unattended until desired concentration is achieved
- Recover concentrate with Pasteur pipette
- Optional expansion of the sample volume capacity with expansion reservoir for Vivapore 10 | 20 (VP A 006)

### Bence-Jones Protein Recovery

The level at which Bence-Jones proteins indicate a pathological condition is 0.06 mg/ml (Damacco). The Vivapore is able to recover and allow visualization of at least 0.008 mg/ml Bence-Jones proteins – well below that required by the clinician. (Ref. Damacco, Waldestrom, Acta Medica Scandinavica [1968] 184 403-409.)

## Specifications

Product name	Vivapore 5	Vivapore 10   20
Device volume	1 – 5 ml	2 – 10   20 ml
Reservoir material	SAN	SAN
Membrane material	PES	PES
Membrane surface area	20 cm <sup>2</sup>	28 cm <sup>2</sup>
Dead stop volume	50 µl	50 µl
MWCO (molecular weight cut off)	7,500	7,500
Max. concentration factor	100 ×	400 ×

## Ordering Information

Order no.	Description
VP0501	Vivapore 5 static concentrator, MWCO 7,500 Dalton, including disposable stand, pack of 30
VP0502	Vivapore 5 static concentrator, MWCO 7,500 Dalton, pack of 100
VP2001	Vivapore 10   20 static concentrator, MWCO 7,500 Dalton, including disposable stand, pack of 30
VP2002	Vivapore 10   20 static concentrator, MWCO 7,500 Dalton, pack of 100

## Accessories

Order no.	Description
VPA002	Disposable stands for use with Vivapore 5 and Vivapore 10   20, pack of 6
VPA005	Recovery Pipettes for Vivapore 10   20, plastic, pack of 100
VPA006	Expansion reservoirs for use with Vivapore 10   20, pack of 10
VPA007	Recovery Pipettes for Vivapore 5, plastic, pack of 100

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