



Technical data and operating instructions

# Vivaspin® Endotest

For in vitro use only



### Storage conditions | shelf life

Vivaspin® Endotest spin columns should be stored at room temperature. The devices should be used before the expiry date printed on the box.

### Introduction

Vivaspin® Endotest is an endotoxin free disposable ultrafiltration device for the complete retention of endotoxin. Vivaspin® Endotest is suitable for sample volumes of 2–15 ml. The innovative design (US Patent No. 5,647,990, second patent pending), ease of use, speed and exceptional concentrate recoveries are the main features of the concentrators.

### Centrifugal Operation

Vivaspin® Endotest can be used in swing bucket or fixed angle rotors accepting standard conical bottom tubes. Samples are typically concentrated in 10 to 15 minutes. The longitudinal membrane orientation and thin channel concentration chamber, provide optimum cross flow conditions.

The moulded pocket below the membrane surface eliminates the risk of filtration to dryness.

### Equipment Required

1. Centrifuge with swing bucket or fixed angle rotor (minimum 25°).
2. Pasteur or fixed volume pipettes for sample delivery and removal.

Device	Carrier Required
Vivaspin® Endotest	50 ml/30 mm Ø

Equipment required	Vivaspin® Endotest
<b>Centrifuge</b>	
Rotor type	Swing bucket or Fixed angle
Minimum rotor angle	25°
Rotor cavity	To fit 50 ml (30 mm) conical bottom tubes

Concentrate recovery	
Pipette type	Fixed or variable volume
Recommended tip	Thin gel loader type

### Rotor compatibility

Please note: Vivaspin® Endotest (30 mm + 116 mm) is designed to fit into rotors that can accommodate Falcon 50 ml conical bottom tubes, e.g. Beckman Allegra 25R with TS-5.1-500 swing-out rotor with BUC 5 buckets and 368327 adaptors; Beckman TA-10.250 25° fixed angle rotor with 356966 adaptors; Heraeus Multifuge 3 S-R with (Heraeus/Sorvall) 75006445 swing out rotor with 75006441 buckets and adaptors for Falcon 50 ml conical bottom tubes. These devices are not designed to fit into rotors that only accept round bottom 29 mm + 105 mm tubes, e.g. Sorvall SS34 Beckman JA 20.

## Operation

1. Fill concentrator with up to the maximum volumes shown in table 1 (Ensure screw closure is fully seated).
2. Insert assembled concentrator into centrifuge (when fixed angle rotors are used, angle concentrator so that the top and window faces upwards | outwards).
3. Centrifuge at  $900\text{--}1000 \times g$  until the desired concentration is achieved.
4. Remove assembly and refill the concentrator with endotoxin free water. Please put some parafilm on the hole in the lid.
5. Vortex the Vivaspin® Endotest for 1 min.
6. Centrifuge the concentrator again at  $900 \times g$  till the desired concentration is achieved.
7. Recover the sample from the bottom of the concentrate pocket with a pipette.

## Technical specifications

Concentrator capacity	Vivaspin® Endotest
Swing bucket rotor	15 ml
Fixed angle rotor	12.5 ml
Dimensions	
Total length	116 mm
Width	30 mm
Active membrane area	3.9 cm <sup>2</sup>
Hold up volume membrane	<20 µl
Dead stop volume*	30 µl
Materials of construction	
Body	Polycarbonate
Filtrate vessel	Polycarbonate
Concentrator cap	Polypropylene
Membrane	(CTA) Cellulose triacetate

\* Dead stop volume as designed in moulding tool. This volume may vary depending on sample, sample concentration, operation temperature and centrifuge rotor.

## Ordering informations

Order nr.	Pack size	Description	Material	MWCO
VSI5RXETO	12	Vivaspin Endotest	Cellulose triacetate	20.000

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