Technical Data Sheet

PURASPIN®

Small filtration units

Description

Centrifuge tubes insert with high pure depth filter sheets.

- Quick filtration trials to investigate the right retention rate
- Volumes up to 20 mL
- Alluvial as well as depth filtration possible
- Quick removal of activated carbon powder for carbon trials

Components

Filter sheets: Purified and bleached cellulose from sustainable sources, natural filter aids, wet strength agent, cationization agent (ZP 145 only)
Plastic case: Polypropylene USP Class VI

Formats

- 20 mL insert for 50 mL centrifuge tubes (Labcon® SuperClear® 50 mL tubes)
- The filter area is 154 mm^2

Product Range

Grade	Retention rate [µm]	Water value(1) [L/m²×min]	Thickness [mm]	Ash content [%]	Filtration type
CH 09	10.0 – 30.0	1500.0 – 2100.0	3.2 – 3.4	< 1.0	Coarse
CH 31	5.0 – 12.0	280.0 – 360.0	4.4 – 4.6	39.5 – 44.5	Fine
CH 71	1.5 – 3.0	170.0 – 210.0	3.7 – 3.9	35.5 – 40.5	Fine
CH 101	0.6 – 1.5	98.0 – 121.0	3.7 – 3.9	39.4 – 44.4	Fine
CH 130	0.4 – 0.6	43.0 – 52.0	3.7 – 3.9	47.5 – 52.5	Sterile
ZP 145	0.1 – 0.3	19.0 – 29.0	3.9 – 4.1	47.5 – 52.5	Sterile

(1) Δp = 100 kPa, the indicated water value does not correspond to the effective flow rate

Bacterial Retention

Grade	Bacterial species	Number of cells	LRV
CH 130	Serratia marcescens	1.0 × 10^8/cm^2	>7.0
Z5 140	Serratia marcescens	1.0 × 10^9/cm^2	>8.0

Operating Conditions

Parameter	Recommendation
Centrifuge speed	Min. 3000 rpm
Rinsing volume for filter area	7.7 mL for 154 mm^2 (≙ 50.0 L/m^2)
Sterilization	Autoclavable

Chemical Stability

Substance	[%]	Media	PP	Substance	[%]	Media	PP
NaOH	1.0	r	r	Citric acid	10.0	r	r
HCl	5.0	r	r	Acetic acid	20.0	r	r
HNO_3	5.0	r	r	Peracetic ac.	0.1	r	r
H_2SO_4	10.0	r	r	Acetone	10.0	r	r
Ethanol	80.0	r	r				

r = resistant at 20 °C. This table is for guidance purposes only

Quality Assurance

Certified to:
- ISO 9001 (quality management)
- Kosher standard

Compliant to:
- Recommendation XXXVI/1 of the German Federal Institute for Risk Assessment (Bundesinstitut für Risikobewertung, BfR)
- FDA (US Food and Drug Administration) 21 CFR 177.2260 e-k
- EU-Directive 10/2011
  USP Class VI

Packaging and Storage

PURASPIN® Spinner and tubes are packed in a cardboard box with 10 assemblies. They must be stored in their original packaging in a dry, odorless, well-ventilated area. PURASPIN® should be used within 36 months from the date of manufacture.

Disposal

The respective official regulations for disposal must be followed depending on the filtered product. Uncontaminated sheets can be disposed of as non-hazardous waste.

Remarks

The validity of the information cannot be guaranteed for every application. All information is based on current knowledge and does not claim to be complete. No liabilities can be derived from this information. FILTROX reserves the right to make changes in the course of technical improvements.

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