

# seripettor® · seripettor® pro

## Bottle-top Dispenser



The dispenser for  
biological laboratories

Dispense quickly and  
with minimal effort

Simple and efficient  
maintenance



**BRAND. For lab. For life.**



# seripettor® · seripettor® pro

- Replaceable dosing unit and wearing parts.
- Easy cleaning and maintenance
- Easy to operate.
- Simple and effortless aspirating and dispensing.
- Volume range from 0.2 to 25 ml

## The low-cost alternative...

**seripettor®** and **seripettor® pro** are innovative bottle-top dispensers from BRAND with a special design. A lifting spring ensures effortless filling. When the piston seal is worn out, the entire dispensing unit can be exchanged by the user rapidly and problem-free.

**seripettor®** and **seripettor® pro** open up an enormous range of applications in routine lab work, with dispensing of buffer solutions, culture media, vitamin solutions; acid, alkaline or salt solutions, and many polar solvents. Even special cases can be managed; for example, the **seripettor®** can handle agar culture media up to a max. of 60 °C. A guide for selecting the right equipment can be found on the last page.

### Eliminate expensive repairs! Dissassembles without tools.

The innovative design of **seripettor®** / **seripettor® pro** makes cleaning and maintenance easy. All parts can be replaced quickly without tools.

## A closer look...



### Volume settings

Scalloped track allow for quick and exact setting of desired volume. The selected volume can be easily read.



### Dispensing

For dispensing, press down gently on the piston. Filling is effortless thanks to the lifting spring.



### Replaceable dosing cartridge

The "heart" of the **seripettor®** / **seripettor® pro** is the dosing unit with a piston seal that wipes the cylinder during operation. When required, it can be easily replaced at little cost.



### Fits most bottles

Valve block (45 mm) and included adapters (32 and 40 mm) match the threads of the most common reagent bottles.

## Handling



### Filtration

Sterile filtration of media directly from the bottle with the **seripettor® pro** and the vent cannula with Luer-Lock attachment (filter sold separately).



### Serial dispensing

The optional flexible discharge tube with the safety grip makes it easier to dispense in long series (it connects to the valve block with an adapter).



### Accessories for dispensing sterile liquids

1. Mount the valve block with filling tube onto the bottle and cover the valve block with cap. Fix the autoclavable sterile membrane filter (0.2 µm) laterally and autoclave at 121 °C.
2. On a Clean-bench (sterile hood), remove the cap from the valve block, screw in a new sterile dispensing cartridge and mount the pump assembly. You're ready to dispense!



# Materials of Construction

	seripettor®	seripettor® pro
Pump assembly	PC	PPO/PEI (for UV protection)
Lifting spring	spring steel	Hastelloy® (stainless)
Dispensing cartridge	PE/PP	PE/PP
Valve block	PP	PP
Valve	PP/EPDM	ETFE/borosilicate glass/Al <sub>2</sub> O <sub>3</sub> /Pt-Ir
Discharge tube	FEP	PTFE/ETFE/FEP/PFA/borosilicate glass/Al <sub>2</sub> O <sub>3</sub> /Pt-Ir
Filling tube	PP	Telescoping filling tube, FEP/PTFE
Cap for discharge tube	Stopper cap, PP	Screw cap, PP

When the device is handled properly, the dispensed liquid comes into contact with the following chemical-resistant materials only: Borosilicate glass, Al<sub>2</sub>O<sub>3</sub>, PE, PP, EDMP, FEP, ETFE, PTFE, platinum-iridium.

## Operating Limits

	seripettor®	seripettor® pro
Vapor pressure	up to 500 mbar	up to 500 mbar
Density	up to 2.2 g/cm <sup>3</sup>	up to 2.2 g/cm <sup>3</sup>
Temperature	15 to 40 °C, agar cultures up to 60 °C	15 to 40 °C
Viscosity	2 ml instrument: 300 mm <sup>2</sup> /s	2 ml instrument: 300 mm <sup>2</sup> /s
	10 ml instrument: 150 mm <sup>2</sup> /s	10 ml instrument: 150 mm <sup>2</sup> /s
	25 ml instrument: 75 mm <sup>2</sup> /s	25 ml instrument: 75 mm <sup>2</sup> /s

## Ordering Data

### Items supplied:

seripettor®/seripettor® pro, discharge tube, filling tube, spare dispensing cartridge and adapter, PP (GL 45/32 and GL 45/S40).

	seripettor®			seripettor® pro		
<b>Volume (ml)</b>	<b>0.2 - 2</b>	<b>1 - 10</b>	<b>2.5 - 25</b>	<b>0.2 - 2</b>	<b>1 - 10</b>	<b>2.5 - 25</b>
<b>Subdivision (ml)</b>	0.04	0.2	0.5	0.04	0.2	0.5
<b>A* (±) %</b>	1.2	1.2	1.2	1.2	1.2	1.2
<b>μl</b>	24	120	300	24	120	300
<b>CV* (≤) %</b>	0.2	0.2	0.2	0.2	0.2	0.2
<b>μl</b>	4	20	50	4	20	50
<b>Cat. No.</b>	<b>4720 120</b>	<b>4720 140</b>	<b>4720 150</b>	<b>4720 420</b>	<b>4720 440</b>	<b>4720 450</b>

\* All dispensers calibrated to deliver (TD, Ex). Error limits according to the nominal capacity (= maximum volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation. A = Accuracy, CV = Coefficient of variation

## Accessories

### Dispensing cartridges

Non-sterile and sterile piston (PE), cylinder (PP).



### Flexible discharge tube

PTFE, coiled, length 800 mm, with handle. Not suitable for HF and peroxides. Pack of 1.



Description	Pack of	Cat. No.
2 ml, non-sterile	3	7045 00
10 ml, non-sterile	3	7045 02
25 ml, non-sterile	3	7045 04
2 ml, sterile (individually wrapped)	7	7045 07
10 ml, sterile (individually wrapped)	7	7045 06
25 ml, sterile (individually wrapped)	5	7045 08

Nominal volume	Cat. No.
2 + 10 ml	7045 22
25 ml	7045 23

### Discharge tube with Luer-Lock attachment for micro filter

FEP/PP. Pack of 1.

Cat. No.	7079 28*
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\* not suitable for peroxide





# Dispenser selection chart

Reagent	seripettor®	seripettor® pro
Acetaldehyde		+
Acetic acid, 5%	+	+
Acetic acid, 96%		+
Acetic acid (glacial), 100%		+
Acetone		+
Acetonitrile		+
Acetophenone	+	
Acetylacetone	+	+
Acrylic acid		+
Acrylonitrile		+
Adipic acid	+	+
Agar (60 °C)	+	
Allyl alcohol	+	+
Aluminium chloride	+	+
Amino acids	+	+
Ammonia, 30%	+	+
Ammonium chloride	+	+
Ammonium fluoride	+	+
Ammonium sulfate	+	+
Amyl alcohol (Pentanol)	+	+
n-Amyl acetate		+
Aniline		+
Barium chloride	+	+
Benzaldehyde		+
Benzyl alcohol		+
Benzylamine		+
Benzylchloride		+
Boric acid, 10%	+	+
BSA serum	+	+
Butanediol	+	+
1-Butanol		+
Butylamine		+
n-Butyl acetate		+
Calcium carbonate	+	+
Calcium chloride	+	+
Calcium hydroxide	+	+
Calcium hypochlorite		+
Chloroacetaldehyde, 45%		+
Chloroacetic acid		+
Chromic acid, 50%		+

Reagent	seripettor®	seripettor® pro
Copper sulfate	+	+
Cumene (Isopropyl benzene)		+
Diethylene glycol	+	+
Dimethyl sulfoxide (DMSO)		+
Dimethylaniline		+
Ethanol	+	+
Ethidium bromide solution	+	+
Formaldehyde, 40%	+	+
Formamide	+	+
Formic acid, 100%		+
Glycerol	+	+
Glycol (Ethylene glycol)	+	+
Glycolic acid, 50%	+	+
Guanidine hydrochloride	+	+
HEPES buffer	+	+
Hexanoic acid	+	+
Hexanol		+
Hydriodic acid	+	+
Hydrobromic acid		+
Hydrochloric acid, 37%		+
Hydrogen peroxide, 35%	+	
Isoamyl alcohol		+
Isobutanol	+	+
Isopropanol (2-Propanol)	+	+
Lactic acid	+	+
LB media	+	+
McCoy's 5A	+	+
MEM	+	+
Methanol	+	+
Methyl benzoate		+
Methyl ethyl ketone		+
Methyl propyl ketone		+
Mineral oil (Engine oil)		+
Monochloroacetic acid		+
Nitric acid, 10%		+
Octoxinol 9 (TRITON™ X-100)	+	+
Oxalic acid	+	+
PBS buffer	+	+

Reagent	seripettor®	seripettor® pro
Perchloric acid		+
Phenol		+
Phosphoric acid, 85%		+
Piperidine		+
Polysorbate (TWEEN®)	+	+
Potassium chloride	+	+
Potassium dichromate	+	+
Potassium hydroxide	+	+
Potassium hydroxide in ethanol	+	+
Potassium permanganate	+	+
Propionic acid	+	+
Propylene glycol (Propanediol)	+	+
Pyridine		+
Pyruvic acid	+	+
Ringer's solution	+	+
RPMI 1640	+	+
Salicylaldehyde		+
Salicylic acid	+	+
SDS (sodium dodecyl sulfate)	+	+
Silver acetate	+	+
Silver nitrate	+	+
Sodium acetate	+	+
Sodium chloride	+	+
Sodium dichromate	+	+
Sodium fluoride	+	+
Sodium hydroxide, 30%	+	+
Sodium hypochlorite 20% (active chlorine approx. 10%)		+
Sulfuric acid, 10%	+	+
Tartaric acid		+
Tris-buffered saline w. Tween20	+	+
TE buffer	+	+
TRIS buffer	+	+
Urea	+	+
Zinc chloride, 10%	+	+
Zinc sulfate, 10%	+	+

**Note:** seripettor® and seripettor® pro are not suitable for HF.

The above recommendations reflect testing completed prior to publication. Always follow instructions in the operating manual of the instrument as well as the reagent manufacturer's specifications. In addition to these chemicals, a variety of organic and inorganic saline solutions (e.g., biological buffers), biological detergents and media for cell culture can be dispensed. Should you require information on chemicals not listed, please feel free to contact BRAND. Status as of: 0420/9

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