

seripettor®
seripettor® pro

seripettor® and seripettor® pro are innovative bottle-top dispensers from BRAND with a special design. They provide a cost-effective alternative to high-end dispensers for routine laboratory use.



seripettor®
Bottle-top Dispenser



Models

Two models, seripettor® and seripettor® pro, are available to simplify your routine dispensing operations. These dispensers will serve in a wide variety of applications – when dispensing buffer solutions, culture media, vitamin solutions, acids, bases, saline solutions or many polar solvents.

Even special cases can be managed; for example, the seripettor® bottle-top dispenser can handle agar culture media up to a max. of 60 °C.

■ Operating range: seripettor®

– Aqueous solutions

Routinely used biological buffer solutions and detergents, antifoaming agents, culture media, vitamin solutions and so on can be dispensed. Hydrogen peroxide can also be dispensed.

Agar culture media can be dispensed at up to a max. of 60 °C.

– Acids

Weak, dilute or non-oxidizing acids can be dispensed.

– Alkaline solutions

The components of the instrument are compatible with alkaline solutions, such as NaOH, KOH and ammonia.

– Polar solvents

e.g., polar solvents such as ethanol, methanol, acetylacetone, etc.



■ Operating range: seripettor® pro

The seripettor® pro bottle-top dispenser extends the operating range to include the dispensing of

- acids such as concentrated HCl
- polar solvents such as acetone
- UV-sensitive reagents

Information on use with your specific media can be found in the guidelines for dispenser selection on page 36, or ask BRAND.

Use and Handling



One-handed operation

For dispensing, press down gently on the piston. The automatic lifting action of a spring pushes the piston up. This automatically fills the dispensing cartridge.



Serial dispensing

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



Dispensing sterile liquids

1. Mount the valve block with filling tube onto the bottle and cover the valve block with cap. Affix 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!



A Closer Look...

The design of the seripettor® bottle-top dispenser makes it possible for the user to replace any functional parts when needed, quickly and easily without the use of tools. Cleaning and maintenance work is reduced to a minimum.



Replaceable dispensing cartridge

If the dispenser's piston seal becomes worn, it is easy and inexpensive to replace. One spare cartridge included free.

Pump assembly with lifting spring

The automatic lifting action of a spring pushes the piston up. This fills the dispensing cartridge.

Volume settings

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



Valve block

Valve block (GL 45) and included adapters (GL 32 and S 40) match the threads of the most common reagent bottles. (See page 26 for an overview of available bottle adapters.)

Cap for discharge tube

Stopper cap or screw cap (depending on the model).

Materials of construction


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



* parts in contact with the media

Dispenser Selection Chart

Reagent	seripettor®	seripettor® pro	Reagent	seripettor®	seripettor® pro	Reagent	seripettor®	seripettor® pro
Acetaldehyde		+	Calcium chloride	+	+	Monochloroacetic acid		+
Acetic acid, 5%	+	+	Calcium hydroxide	+	+	Nitric acid, 10%		+
Acetic acid, 96%		+	Calcium hypochlorite		+	Oxalic acid	+	+
Acetic acid (glacial), 100%		+	Chloroacetaldehyde, 45%		+	Perchloric acid		+
Acetone		+	Chloroacetic acid		+	Phenol		+
Acetonitrile		+	Chromic acid, 50%		+	Phosphoric acid, 85%		+
Acetophenone	+		Copper sulfate	+	+	Piperidine		+
Acetylacetone	+	+	Cumene (Isopropyl benzene)		+	Potassium chloride	+	+
Acrylic acid		+	Diethylene glycol	+	+	Potassium dichromate	+	+
Acrylonitrile		+	Dimethyl sulfoxide (DMSO)		+	Potassium hydroxide	+	+
Adipic acid	+	+	Dimethylaniline		+	Potassium hydroxide in ethanol	+	+
Agar (60 °C)	+		Ethanol	+	+	Potassium permanganate	+	+
Allyl alcohol	+	+	Formaldehyde, 40%	+	+	Propionic acid	+	+
Aluminium chloride	+	+	Formamide	+	+	Propylene glycol (Propanediol)	+	+
Amino acids	+	+	Formic acid, 100%		+	Pyridine		+
Ammonia, 30%	+	+	Glycerol	+	+	Pyruvic acid	+	+
Ammonium chloride	+	+	Glycol (Ethylene glycol)	+	+	Salicylaldehyde		+
Ammonium fluoride	+	+	Glycolic acid, 50%	+	+	Salicylic acid	+	+
Ammonium sulfate	+	+	Hexanoic acid	+	+	Silver acetate	+	+
Amyl alcohol (Pentanol)	+	+	Hexanol		+	Silver nitrate	+	+
n-Amyl acetate		+	Hydriodic acid	+	+	Sodium acetate	+	+
Aniline		+	Hydrobromic acid		+	Sodium chloride	+	+
Barium chloride	+	+	Hydrochloric acid, 37%		+	Sodium dichromate	+	+
Benzaldehyde		+	Hydrogen peroxide, 35%	+		Sodium fluoride	+	+
Benzyl alcohol		+	Isoamyl alcohol		+	Sodium hydroxide, 30%	+	+
Benzylamine		+	Isobutanol	+	+	Sodium hypochlorite 20% (active chlorine approx. 10%)		+
Benzylchloride		+	Isopropanol (2-Propanol)	+	+	Sulfuric acid, 10%	+	+
Boric acid, 10%	+	+	Lactic acid	+	+	Tartaric acid		+
Butanediol	+	+	Methanol	+	+	Urea	+	+
1-Butanol		+	Methyl benzoate		+	Zinc chloride, 10%	+	+
Butylamine		+	Methyl ethyl ketone		+	Zinc sulfate, 10%	+	+
n-Butyl acetate		+	Methyl propyl ketone		+			
Calcium carbonate	+	+	Mineral oil (Engine oil)		+			

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: 0114/9

Note!  seripettor® and seripettor® pro are not suitable for HF. For dispensing HF, we recommend the use of the Dispensette® TA bottle-top dispenser with platinum-iridium valve spring (Cat. No. 4740 041, page 32).

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

Ordering Data

seripettor®

Items supplied:

Each seripettor® bottle-top dispenser is supplied with discharge tube, filling tube, spare dispensing cartridge and PP adapters (GL 45/32 and GL 45/S40).

Volume ml	Subdivision ml	A* ≤ ±		CV* ≤		Cat. No.
		%	µl	%	µl	
0.2 - 2	0.04	1.2	24	0.2	4	4720 120
1 - 10	0.2	1.2	120	0.2	20	4720 140
2.5 - 25	0.5	1.2	300	0.2	50	4720 150



seripettor® pro

Items supplied:

Each seripettor® pro bottle-top dispenser is supplied with discharge tube, filling tube, spare dispensing cartridge, mounting tool and PP adapters (GL 45/32 and GL 45/S40).

Volume ml	Subdivision ml	A* ≤ ±		CV* ≤		Cat. No.
		%	µl	%	µl	
0.2 - 2	0.04	1.2	24	0.2	4	4720 420
1 - 10	0.2	1.2	120	0.2	20	4720 440
2.5 - 25	0.5	1.2	300	0.2	50	4720 450



* 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 and Spare Parts

(Other spare parts and accessories can be found in the operating manual.)

Note! Dispensing cartridges are not autoclavable.

Dispensing cartridges

For seripettor® and seripettor® pro. Non-sterile and sterile. Piston (PE), cylinder (PP).



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

Flexible discharge tube

For seripettor® and seripettor® pro. PTFE tube, coiled, length approx. 800 mm, with safety handle. Pack of 1.



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

Note! Not suitable for peroxides.



Pump assembly seripettor®

PC, spring steel lifting spring.
Pack of 1.

Description	Cat. No.
2 ml	7045 41
10 ml	7045 42
25 ml	7045 44



Discharge tube seripettor®

Incl. closure cap and EPDM discharge valve.
Pack of 1.

Description	Cat. No.
Fine tip (2 ml)	7045 18
Standard (10 + 25 ml)	7045 20



Valve set seripettor®

1 filling valve (filling valve body, O-ring) 1 discharge valve, 2 seals.

Cat. No.	6790
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See page 26 for an overview of available **bottle adapters**.



Pump assembly seripettor® pro

PPO. PEI (UV protection). Hastaloy (stainless) lifting spring.
Pack of 1.

Description	Cat. No.
2 ml	7045 51
10 ml	7045 48
25 ml	7045 49



Discharge tube seripettor® pro

With integrated valve with seal.
Pack of 1.

Description	Cat. No.
2 ml	7079 15
10 ml	7079 16
25 ml	7079 18

Discharge tube adapters are ordered separately.

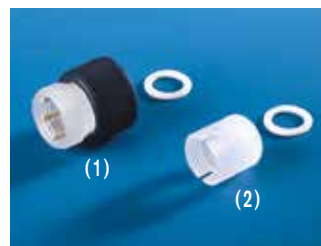


Filling valve seripettor® pro

Filling valve with seal.
Pack of 1.

Description	Cat. No.
2 + 10 ml	6697
25 ml	6698

Filling valves are ordered separately.



(1) Adapter for discharge tube seripettor® pro

PP. With seal.
Pack of 1.

Cat. No.	6208
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(2) Adapter for filling valve seripettor® pro

PP. With seal.
Pack of 1.

Cat. No.	6707
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Filling tubes seripettor®

PP. Autoclavable design with additional O-rings.

Length mm	Pack of	Cat. No.
250	2	7045 32
500	2	7045 34
250, with O-ring	1	7045 36
500, with O-ring	1	7045 38



Telescopic filling tubes seripettor® pro

FEP. Adjusts to various bottle heights.
Pack of 1.

Nominal volume ml	Outer Ø mm	Length mm	Cat. No.
2 + 10	6	70-140	7042 02
		125-240	7042 03
		195-350	7042 08
		250-480	7042 01
25	7.6	170-330	7042 04
		250-480	7042 05

