Dispensette® S Trace Analysis

Bottle-top Dispenser

Number 1 for dispensing high-purity media

Trace metal content generally below the detectability threshold

Dispensing of acids and bases for trace analysis – also suitable for hydrofluoric acid

BRAND. For lab. For life.

Dispensette® *S* Trace Analysis

Innovative ideas, trusted technology – Dispensette® *S* Trace Analysis, the new bottle-top dispenser. For precise volume dispensing of high-purity media such as acids and bases for trace analysis.

- New discharge tube with or without recirculation valve
- New valve system no sealing rings necessary
- Dispensing of media in the volume range from 1 to 10 ml.
- Volume selection with interior scalloped track
- Dispensing hydrofluoric acid no problem with the platinum-iridium valve spring.
- Trace metal content generally below the detectability threshold of normal analytic procedures

A Closer Look...

The bottle-top dispenser Dispensette® *S* Trace Analysis is designed for use in trace analysis. The high-purity materials of the dispenser release no metal ions. No values found above the detectability threshold in ICP-MS analysis*. Innovative ideas – trusted technology.

Dispensing cartridge with serial number

Calibration mechanism

Piston seat

Discharge valve with safety ball closes when discharge tube is not mounted

Discharge tube without recirculation valve

Large viewport

Volume selection using interior scalloped track

Safety ring

Discharge tube with recirculation valve

360° rotating valve block with GL 45 thread

Hinged screw cap doesn't get in the way when dispensing

Olive-shaped filling valve for firmer attachment of the filling tube

Recirculation tube for discharge tubes with recirculation valve

Telescoping filling tube

Replaceable dispensing cartridge supplied with certificate

* ICP-MS according to DIN EN ISO 17294-2 (E29). Further information with details on device preparation and analytic results are available in a Technical Note on www.brand.de.

Easy Handling

Simple to mount

The new discharge tube is easy to fasten and is available with or without a recirculation valve.

Positive volume setting

Volume setting is quick, secure and repeatable due to the interior scalloped track.

Designed without seals

All valves work without any additional sealing rings, which makes cleaning easier.

Replaceable dispensing cartridge

The entire dispensing cartridge can easily be replaced without tools by the user.
Fully adjusted at the factory, with a performance certificate. No calibration is required after replacement.

Trusted technology

- Parts in contact with media consist of high-purity materials such as PTFE, ETFE, PCTFE, FEP and PFA.
  The purest sapphire is used for replaceable valves.
  Depending on the application, platinum-iridium or tantalum are available as spring materials.
- A field-tested cleaning process before use in trace analysis is described in the operating manual.
- If contamination of the bottle contents must be avoided when used in trace analysis, we recommend using the dispenser without recirculation valve.
- The valve block can be rotated 360° so that the bottle label always faces the user for safety
- Telescoping filling tube adjusts to different bottle sizes
- The 45 mm standard thread plus the included adapters fit common lab bottles
- Easy disassembly for replacement of the dispensing cartridge
- DE-M marking*

* legally replaces H since January 1, 2015

Recommended application range

Dispensing medium	Valve spring Pt-Ir	Valve spring Ta
Acetic acid	+	+
Ammonia solution	+	+
Bromine	+	+
Hydrochloric acid	+	+
Hydrofluoric acid**	+	–
Hydrogen peroxide	–	+
Nitric acid	+	+
Perchloric acid	+	+
Phosphoric acid	+	+
Sodium hydroxide, 30%	+	–
Sulfuric acid	+	+
Water	+	+

+ suitable – not suitable

** Hydrofluoric acid reacts slightly with sapphire resulting in mildly elevated aluminum values. To reduce these values we recommend discarding 3-5 dispensings of 2 ml each before performing the analysis.

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. Should you require information on chemicals not listed, please feel free to contact BRAND. Status as of: 0815/2

Ordering Information

Dispensette® *S* Trace Analysis, Analog-adjustable

Items supplied:

Dispensette® *S* Trace Analysis bottle-top dispenser, DE-M marking, performance certificate, telescoping filling tube, recirculation tube (optional), mounting tool and bottle adapters GL 28/S 28 (ETFE), GL 32 (ETFE) and S 40 (PTFE).

Capacity ml	Valve spring	A* ≤ ± %	µl	CV* ≤ %	µl	without recirculation valve Cat. No.	with recirculation valve Cat. No.
1 - 10	Platinum-iridium	0.5	50	0.1	10	**4640 040**	**4640 041**
1 - 10	Tantalum	0.5	50	0.1	10	**4640 240**	**4640 241**

* 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. The error limits are well within the limits of DIN EN ISO 8655-5. DE-M marking. A = Accuracy, CV = Coefficient of variation

Accessories · Spare Parts

Discharge tubes

With and without recirculation valve. Nominal volume 10 ml. Screw cap ETFE. Discharge tube marked with 'Pt-Ir' or 'Ta'. Pack of 1.

Valve spring	Length mm	without recirculation valve Cat. No.	with recirculation valve Cat. No.
Platinum-iridium	105	**7080 22**	**7081 22**
Tantalum	105	**7080 24**	**7081 24**

Bottle stand

PP. Full plastic construction. Support rod 325 mm, base plate 220 x 160 mm, weight 1130 g. Pack of 1.

Cat. No.	7042 75

Dispensing cartridge with safety ring

Nominal volume 10 ml. Calibrated, incl. quality certificate. Pack of 1.

Cat. No.	7080 35

Flexible discharge tube with recirculation valve*

PTFE, coiled, length approx. 800 mm, with safety handle. Pack of 1.

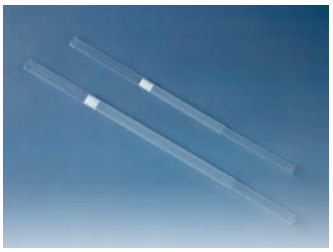
Nominal volume ml	Discharge tube Outer Ø mm	Inner Ø mm	Cat. No.
10	3	2	**7081 32**

* not suitable for HF

Telescoping filling tubes

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

Length mm	Cat. No.
70-140	**7082 10**
125-240	**7082 12**
195-350	**7082 14**
250-480	**7082 16**



Additional accessories can be found at www.brand.de

BRAND GMBH + CO KG · P.O. Box 11 55 · 97861 Wertheim · Germany
Tel.: +49 9342 808-0 · Fax: +49 9342 808-98000 · E-Mail: info@brand.de · Internet: www.brand.de

BRAND®

9942 36 · Printed in Germany · V0917

4 033378 463319