

Competence in Labware

Labware range

VITLAB®
Competence in Labware

Welcome!

VITLAB has over 100 years of tradition. The company VITRI GmbH & Co. KG was established in 1908 in Mühltal, and the laboratory division was spun off in 1989 as VITLAB. Today, VITLAB is one of the leading manufacturers of liquid handling instruments and performance plastic laboratory products for industrial and scientific applications. We develop and manufacture these laboratory products at our own production facility.



Our extensive range of products provides optimal support in your laboratory work in a wide variety of application ranges. Regardless of whether your work involves volume measurement, sampling or storage: VITLAB products will facilitate it while continuing to ensure that you achieve perfect results.

We hope that this new catalogue will serve as a valuable resource to aid in your lab work. We would be glad to respond to your enquiries, and look forward to receiving suggestions and ideas from our users.

This catalogue describes our products and provides all essential information. You will find detailed data regarding the various plastics clearly presented in the chapter entitled "General and Technical Information". To simplify your search, our product range has been categorised into the following areas of application: dispensing, pipetting, titration, volume measurement, measuring and transferring, sample preparation, saving and storing, lab assistants.

Under "Volume Measurement", for example, you will find a wide variety of classical volumetric instruments such as volumetric flasks, measuring cylinders, and associated accessories.

In addition to the range of products that appears in our catalogue, we also produce plastic products according to customer specification. For example, bottles and beakers required for special tasks can be commissioned with a specified geometry and thickness. Optionally, the products can be printed with an individualised scale or with customised labelling. Labware for promotional use can be designed and printed with a company name and logo.

We can even accommodate requests for individualised packaging formats, materials, and designs. Further information is available in the VITLAB® Promotional chapter.

Many possibilities can be realised – don't hesitate to ask what we can do for you!



VITLAB
Your reliable partner

Certified quality

Independent inspections and routine internal audits guarantee the effectiveness of VITLAB's quality management system throughout the entire company, from development to shipment. As a result, the phrase 'Made by VITLAB' has become synonymous with quality.

Over 98% of our product line is made in Germany. Supplemental procedures such as tempering and volume testing are conducted in our own facilities, which guarantees the highest possible product quality and measurement accuracy. Our continuous improvement paradigm supports our goal of 0% failure.

The VITLAB Quality Management System has been continuously certified since January 1994, according to DIN EN ISO 9001.

Active stewardship of the environment is an equally strong pillar of our business philosophy. VITLAB has been certified according to DIN EN ISO 14001 since May, 1999.

Prompt deliveries Competent customer service

The highly efficient logistics in the Großostheim production facility facilitate the shortest possible delivery times for all products listed in the catalogue. For the standard articles, we strive for an availability of over 94%.

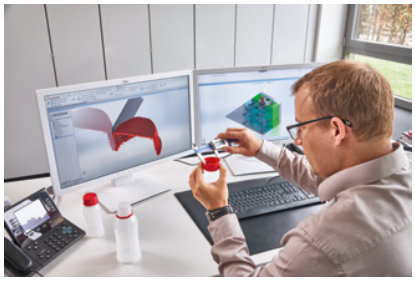
Due to its intensive partnerships with distributors in over 70 countries, VITLAB can offer sound on-site advice, individual support, and quick answers to your questions.

Our qualified product training sessions provide comprehensive technical and application-oriented information on using our products. Should problems arise, our expert repair service keeps downtime as short as possible.

VITLAB products can be ordered from specialist dealers worldwide. Our authorised sales partners can be found on the internet at:

www.vitlab.com

Or contact us directly.







For your information



Your contact
Customer Service

Our Customer Service staff is at your service to provide you with competent advice and answers to all your queries and questions concerning offers, orders and deliveries. Our Product Management and Sales Team are at your disposal – also "on site" – with any technical information or assistance that you might require for your application.

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The packaging units (PU) correspond to the minimum order quantities. All up-to-date information is also available on the internet at www.vitlab.com.

If you need additional details, please call us.

California Residents: For more information concerning California Proposition 65, please refer to www.vitlab.com/calprop65.

VITLAB®, VITLAB®, maneus®, pipeo®, VITsafe™, VITgrip™ are brands of VITLAB GmbH.

Table of contents

Dosing



Pipetting



Titration



Volume measurement



Measuring & Transferring



Sample preparation



Saving & Storing



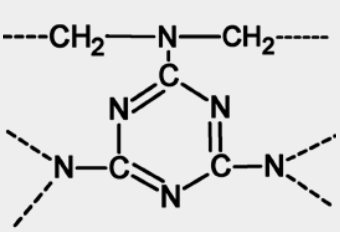
Lab assistants



VITLAB Promotional



More information



Brochures


NEW

VITLAB
Competence in Labware

Dosing - now even safer and more comfortable

Discover the new way of dosing with the bottle-top dispensers VITLAB® genius² and simplex²

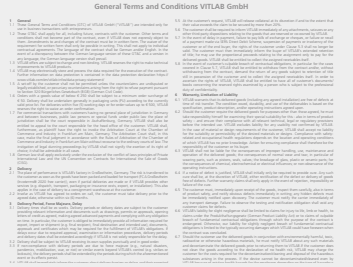
Drawing quantities of liquids from large supply bottles is a daily routine in the lab. This manual task must be carried out quickly, accurately, reproducibly, simply and safely.

With the new generation of the bottle-top dispensers genius² and simplex² we offer proven precision devices in an improved version. The dispensers are equipped with a positive displacement piston and a fluoroplastic

"windscreen wiper" to prevent crystal build-up on the cylinder wall from readily crystallisable media. The telescopic filling tube can be adjusted smoothly to different bottle heights.

VITLAB genius² and simplex² can both be calibrated within the scope of test equipment monitoring according ISO 9001 and GLP guidelines (a change to the factory settings is indicated), are autoclavable according to

General Terms & Conditions


General Terms and Conditions VITLAB GmbH

Distributors



Clear product statements

Our aim is to provide you with a clear and comprehensive presentation of all relevant product information. For quick reference, we use the following symbols:



DIN ISO-compliant Class A volumetric instruments



DE-M marking for conformity certified products according to the German Measurement and Calibration Regulation



Food-safe products according to EU Directive No. 10/2011



Products with high protection for light-sensitive substances



Products individually packaged in PE bags, labelled with the article number, description and EAN code



Products that can be autoclaved at 121 °C (2 bar) according to DIN EN 285. Note restrictions!



CE mark according to EU Guideline 2004/108/EC, 93/68/EEC; 73/23/EEC, and 93/68/EEC

Dosing

Highest reliability in dispensing

Drawing quantities of liquids from large supply bottles is a daily routine in the lab

VITLAB® bottle-top dispensers are suitable for a variety of precision dispensing applications. VITLAB® genius² and simplex² can be used for practically any task, while the dispenser VITLAB® TA² has been specially developed for use in trace analysis and with highly concentrated media. The VITLAB® piccolo complements the family of dispensers in dispensing of tiny quantities of liquids in all areas of biochemical and medical research. As they are produced from materials with high chemical resistance, VITLAB® bottle-top dispensers are very robust and reliable. They can be mounted directly or with the help of an adapter on all common laboratory bottles, so that decanting of chemicals is not necessary.

General information



VITLAB® genius²



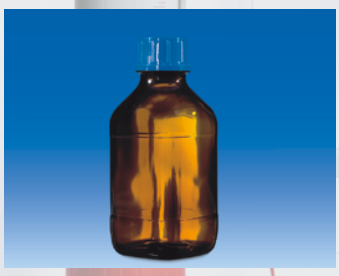
VITLAB® simplex²



VITLAB® TA²



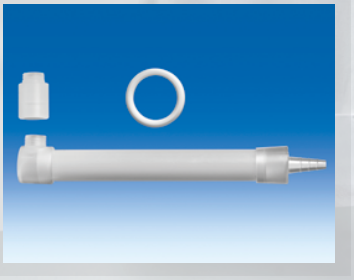
Brown class bottles



Plastic stand



Drying tube



VITLAB® piccolo



Dosing

VITLAB® Dispenser line: genius², simplex², and TA²

VITLAB® genius² and simplex² bottle-top dispensers are a family of instruments with proven precision that offer many advantages in routine liquid-handling operations. VITLAB® genius² and simplex² instruments can be used for practically any task and are suitable for organic and inorganic solutions, while VITLAB® TA² dispensers have been specially developed for use in trace analysis and with highly concentrated media. As they are produced from materials with extremely high chemical resistance (e.g. PTFE, PFA, FEP, borosilicate glass and platinum-iridium), VITLAB® bottle-top dispensers are very robust and reliable and resistant against most acids, bases and organic solvents.



	VITLAB® genius² / simplex² / simplex²$_{fix}$	VITLAB® TA²
Applications	Salt solutions, acids, bases, and many organic solvents	Specially for use in trace analysis for dispensing high-purity and highly concentrated acids and alkalis, as well as hydrogen peroxide, bromine and HF
Components in contact with media	Borosilicate glass, Al_2O_3-ceramic, FEP, ETFE, PFA, PTFE, platinum-iridium, PP (screw cap)	Various fluoroplastics (e.g., ETFE, FEP, PFA, PCTFE, PTFE), Al_2O_3-sapphire, platinum-iridium or tantalum (depending on the model)
Operating limits	Temperature: +15 °C to +40 °C Steam pressure: max. 600 mbar Viscosity: max. 500 mm²/s Density: max. 2.2 g/cm³	Temperature: +15 °C to +40 °C Steam pressure: max. 600 mbar Viscosity: max. 500 mm²/s Density: max. 3.8 g/cm³

* Dynamic viscosity [mPas] = kinematic viscosity [mm²/s] x density [g/cm³]

General guide for dispenser selection (for the classification of dispenser media, see page 11).

Salt solutions	Acids and bases	Solvents	High-purity and highly concentrated acids and bases	Hydrofluoric acid (HF), bromine, hydrogen peroxide
VITLAB® genius²/simplex² →		VITLAB® genius²/simplex² →		
			VITLAB® TA² →	

Dosing

Recommended usage ranges for VITLAB® genius² / simplex² / simplex²fix:

	Medium		Medium		Medium
O	Acetaldehyde	I	Copper sulphate	O	Methyl butyl ether
O	Acetic acid, ≤ 96%	O	Cresol	O	Methyl ethyl ketone
O	Acetone	O	Cumene (Isopropylbenzene)	O	Methyl formate
O	Acetonitrile	O	Cyclohexanone	O	Methyl propyl ketone
O	Acetylacetone	O	Decane	O	Mineral oil (Motor oil)
O	Acrylic acid	O	1-Decanol	O	Monochloroacetic acid, ≤ 50%
O	Acrylonitrile	O	Diethylene glycol	I	Nitric acid, ≤ 60%*/**
O	Adipic acid	O	Dibenzyl ether	O	Nitrobenzene
O	Allyl alcohol	O	Dichlorobenzene	O	Octane
I	Aluminium chloride	O	Dichloroethane	O	Oleic acid
O	Amino acid	O	Dichloromethane	O	Oxalic acid
I	Ammonia solution, ≤ 20%	O	Diethanolamine	I	Perchloric acid
I	Ammonium chloride	O	Diethyl ether	O	Petroleum
I	Ammonium fluoride	O	Diethylamine	O	Phenol
I	Ammonium hydroxide, ≤ 20%	O	1,2 Diethylbenzene	O	Phenylethanol
I	Ammonium sulphate	O	Dimethyl sulphoxide (DMSO)	O	Phenylhydrazine
O	Amyl acetate	O	Dimethylaniline	I	Phosphoric acid, ≤ 85%
O	Amyl alcohol (Pentanol)	O	Dimethylformamide (DMF)	I	Phosphoric acid, 85% + sulphuric acid, 98%,1:1
O	Amyl chloride (Chloropentane)	O	1,4 Dioxane	O	Piperidine
O	Aniline	O	Diphenyl ether	I	Potassium chloride
I	Barium chloride	O	Ethanol	I	Potassium dichromate
O	Benzaldehyde	O	Ethanolamine	I	Potassium hydroxide
O	Benzene	O	Ethyl acetate	I	Potassium permanganate
O	Benzoyl chloride	O	Formaldehyde, ≤ 40%	O	Propanol
O	Benzyl alcohol	O	Formamide	O	Propionic acid
O	Benzyl chloride	O	Formic acid, ≤ 100%	O	Propylene glycol (Propanediol)
O	Benzylamine	O	Gasoline	O	Propylene oxide
I	Boric acid, ≤ 10%	O	Glacial acetic acid	O	Pyridine
O	Bromobenzene	O	Glycerine	O	Pyruvic acid
O	Bromonaphthalene	O	Glycol (Ethylene glycol)	O	Salicylaldehyde
O	Butanediol	O	Glycolic acid, ≤ 50%	O	Salicylic acid
O	1-Butanol	O	Heating oil (Diesel oil)	O	Silver acetate
O	n-Butyl acetate	O	Hexane	I	Silver nitrate
O	Butyl methyl ether	O	Hexanoic acid	O	Sodium acetate
O	Butylamine	O	Hexanol	I	Sodium chloride
O	Butyric acid	I	Hydrochloric acid, ≤ 37%**	I	Sodium dichromate
I	Calcium carbonate	I	Hydroiodic acid, ≤ 57%**	I	Sodium fluoride
I	Calcium chloride	I	Iodine / potassium iodide solution	I	Sodium hydroxide, ≤ 30%
I	Calcium hydroxide	O	Isoamyl alcohol	I	Sodium hypochlorite
I	Calcium hypochlorite	O	Isobutanol	I	Sulphuric acid, ≤ 98%
O	Chloroacetaldehyde, ≤ 45%	O	Isopropanol (2-propanol)	O	Tartaric acid
O	Chloroacetic acid	O	Isopropyl ether	O	Tetramethylammonium hydroxide
O	Chloroacetone	O	Lactic acid	O	Toluene
O	Chlorobenzene	I	Magnesium chloride	O	Turpentine
O	Chlorobutane	I	Mercury chloride	O	Urea
O	Chloronaphthalene	O	Methanol	O	Xylene
I	Chromic acid, ≤ 50%	O	Methoxybenzene	I	Zinc chloride, ≤ 10%
I	Chromic-sulphuric acid	O	Methyl benzoate	I	Zinc sulphate, ≤ 10%

The above data have been carefully checked and reflect the current state of knowledge. Always follow the instructions for use that accompany the instrument as well as the reagent manufacturer's instruction manual. In addition to the chemicals listed above, solutions of a wide variety of organic or inorganic salts (e.g., biological buffers), biological detergents, and cell culture media can be dispensed. Should you require information on chemicals not listed, please do not hesitate to contact us. Last updated: 09/17.

* Use ETFE/PTFE bottle adapter

** Use drying tube

I	Inorganic media
O	Organic media

VITLAB® genius² / simplex² / simplex²fix

VITLAB® dispensers are practically universally applicable and can be used with many **organic and inorganic solutions**. The materials that come into contact with media (borosilicate glass, Al_2O_3ceramics, FEP, ETFE, PFA, PTFE, platinum iridium and PP) are resistant to most acids, solvents and bases.

The devices are equipped with a positive displacement piston and a fluoroplastic (PFA) sealing lip on the cylinder wall. This latter acts like a windscreen wiper to **prevent crystal build-up on the cylinder wall** from readily crystallisable media. The glass cylinder is also coated with a plastic material that reduces the risk of splashes should breakage occur. The telescopic filling tube can be adjusted smoothly to different bottle heights.

The practical screwing mechanism and inner toothed bar enable a fast and precise volume adjustment (simplex² and genius²). The simple-to-use calibration function helps meet all the requirements for test equipment monitoring with minimal downtime. Reagent loss while bleeding is avoided with the innovative recirculation valve (only genius²). The screwable discharge valve is equipped with an additional safety bulb and closes the dosing channel, if dispensing tube is not installed, so that no medium can escape.

VITLAB® genius², simplex² and simplex²fix are completely autoclavable at 121 °C (2 bar) according to DIN EN 285.

Also available with DAkkS calibration certificate or individual certificate (at additional cost).



VITLAB® genius²

121°C

Bottle-top dispenser with variable volume and recirculation system.

Included in delivery: VITLAB® genius² (GL 45 thread), 3 or 5 thread adapters* made of PP, telescopic filling tube, recirculation tube, mounting tool, quality certificate and operating manual.

Volume ml	Graduation ml	A** ≤ ± %	A** ≤ ± µl	CV** ≤ %	CV** ≤ µl	PU	Cat. No.
0.2 - 2.0	0.05	0.5	10	0.1	2	1	1625503
0.5 - 5.0	0.10	0.5	25	0.1	5	1	1625504
1.0 - 10.0	0.20	0.5	50	0.1	10	1	1625505
2.5 - 25.0	0.50	0.5	125	0.1	25	1	1625506
5.0 - 50.0	1.00	0.5	250	0.1	50	1	1625507
10.0 - 100.0	1.00	0.5	500	0.1	100	1	1625508

* Nominal volume 2 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm). Nominal vollume 25 - 100 ml: with adapters GL 32, GL 38, S 40 and telescopic intake tube (length 170 - 330 mm).

** Error tolerance conforming to DIN EN ISO 8655-5, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing.

Dosing

VITLAB® simplex²

121°C



Bottle-top dispenser with variable volume.

Included in delivery: VITLAB® simplex² (GL 45 thread), 3 respectively 5 thread adapters* made of PP, telescopic filling tube, mounting tool, quality certificate and operating manual.

Volume ml	Graduation ml	A** ≤ ± %	A** ≤ ± µl	CV** ≤ %	CV** ≤ µl	PU	Cat. No.
0.2 - 2.0	0.05	0.5	10	0.1	2	1	1621503
0.5 - 5.0	0.10	0.5	25	0.1	5	1	1621504
1.0 - 10.0	0.20	0.5	50	0.1	10	1	1621505
2.5 - 25.0	0.50	0.5	125	0.1	25	1	1621506
5.0 - 50.0	1.00	0.5	250	0.1	50	1	1621507
10.0 - 100.0	1.00	0.5	500	0.1	100	1	1621508

* Nominal volume 2 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm). Nominal vollume 25 - 100 ml: with adapters GL 32, GL 38, S 40 and telescopic intake tube (length 170 - 330 mm).

** Error tolerance conforming to DIN EN ISO 8655-5, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing.

VITLAB® simplex²fix

121°C



Bottle-top dispenser with fixed volume.

Included in delivery: VITLAB® simplex² (GL 45 thread), 5 thread adapters* made of PP, telescopic filling tube, mounting tool, quality certificate and operating manual.

Volume ml	Graduation ml	A** ≤ ± %	A** ≤ ± µl	CV** ≤ %	CV** ≤ µl	PU	Cat. No.
1.0	-	1.0	10	0.2	2	1	1622502
5.0	-	0.5	25	0.1	5	1	1622504
10.0	-	0.5	50	0.1	10	1	1622505

* Nominal volume 1 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm).

** Error tolerance conforming to DIN EN ISO 8655-5, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing.



VITLAB® TA²

The VITLAB® TA² dispenser is the dosing device of choice to meet the demanding purity standards required in trace analysis. The high quality parts that come exclusively in contact with the medium and the specially developed and proven cleaning process to be done before use results in **a reduced release of trace metal ions to the low ppb range, or, depending on the application, even the ppt range**. The parts that are in contact with media are made of various fluoroplastics (e.g. ETFE, FEP, PFA, PTFE, PCTFE), Al_2O_3-sapphire, platinum-iridium or tantalum (depending on model).

Thanks to the excellent chemical resistance of the materials used, the new dispenser can also be deployed with **highly concentrated acids and bases**, such as perchloric, sulphuric and nitric acid. Depending on the application, there is a choice of two different valve spring systems: the VITLAB® TA² with tantalum spring is recommended for dosing of hydrogen peroxide (H_2O_2). For applications using sodium hydroxide (up to a max. concentration of 30%) or hydrogen fluoride (HF) the platinum-iridium spring is recommended. In order to minimize the loss of valuable reagents or sample solutions, VITLAB offers the dispenser with the optional recirculation valve. The practical screwing mechanism and inner toothed bar enable a fast, easy and precise volume adjustment. Also available with DAkkS calibration certificate (at additional cost).

Included in delivery:
VITLAB® TA² dispenser (thread GL 45), 3 bottle adapters (GL 28/S 28 (ETFE), GL 32 (ETFE) and S 40 (PTFE), telescopic filling tube, recirculation valve (optionally), mounting tool, quality certificate and operating manual.

Volume ml	Valve spring	Recirculation	Graduation ml	A* ≤ ± %	CV* ≤ %	PU	Cat. No.
1.0 - 10.0	Pt-Ir	no	0.2	0.5	0.1	1	1627515
1.0 - 10.0	Pt-Ir	yes	0.2	0.5	0.1	1	1627525
1.0 - 10.0	Ta	no	0.2	0.5	0.1	1	1627535
1.0 - 10.0	Ta	yes	0.2	0.5	0.1	1	1627545

* Error tolerance conforming to DIN EN ISO 8655-5, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing.

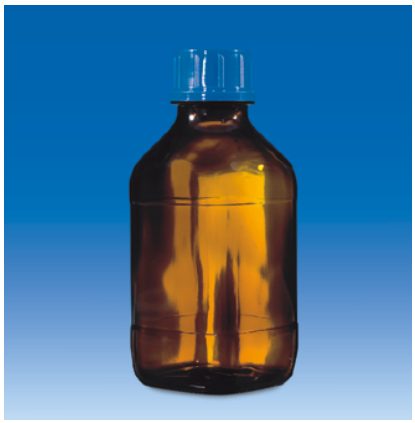
Recommended dispensing media for VITLAB® TA²

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%	+	-
Sulphuric acid	+	+
Water	+	+

\+ suitable / - unsuitable
* Note: Hydrofluoric acid reacts slightly with sapphire resulting in slightly increased aluminium levels. To reduce these values we recommend discarding 3-5 dosings of 2 ml each before performing analysis.

Dosing

Brown glass bottles for VITLAB® genius² and simplex²



Threaded brown glass (soda lime glass) bottles with an ethylene acrylate coating for increased safety, and a screw cap. The plastic coating significantly reduces hazardous glass splintering during breakage. The maximum working temperature for coated bottles is 80 °C. To preserve the coating, do not clean at temperatures exceeding 60 °C.

Volume ml	Form	Thread GL	PU	Cat. No.
250	square	32	1	1671515
500	square	32	1	1671520
1000	square	45	1	1671500
2500	round	45	1	1671510

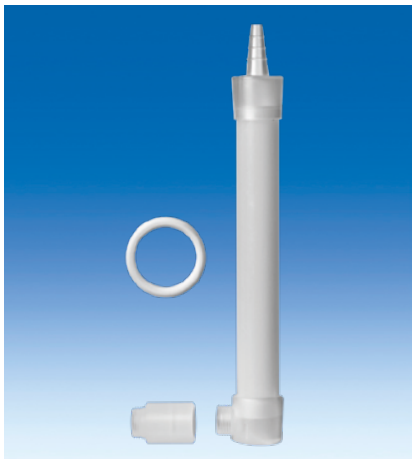
Plastic stand for VITLAB® dispensers



For secure anchoring, made entirely of polypropylene for contamination-free operation (no metal). Suitable for VITLAB® dispensers with screw coupling GL 45.
Stand rod: 300 mm; base: 220 x 160 mm; weight: 1,130 g.

Description	PU	Cat. No.
Plastic stand	1	1671116

Drying tube for VITLAB® dispensers



PP, transparent, unfilled, with sealing ring (PTFE).
Can directly be connected to every dispenser.

Description	PU	Cat. No.
Drying tube, PP, unfilled	1	1671090



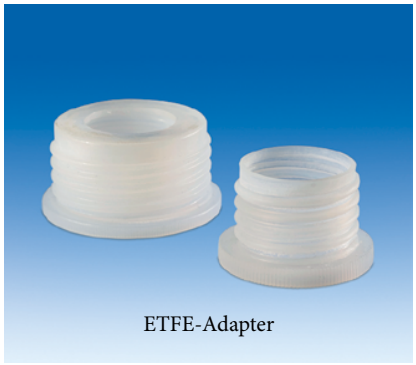
Flexible discharge tubes for VITLAB® dispensers

Coiled, made of FEP, approx. 80 cm length, with handle and recirculation valve made of PTFE. Includes handle and assembly instructions. Not suitable for hydrofluoric acid (HF)!

Description	PU	Cat. No.
Flexible discharge tube for genius² / simplex² 2, 5 and 10 ml	1	1678132
Flexible discharge tube for genius² / simplex² 25, 50 and 100 ml	1	1678134
Flexible discharge tube for VITLAB® TA² (with grey lever)	1	1678136



PP-Adapter



ETFE-Adapter

Adapter for VITLAB® dispensers

For securely screwing the dispenser onto the reagent bottles with an NS neck, GL screw threading or an S buttress thread. For VITLAB® TA² please use adapter ETFE/PTFE. These are recommended for VITLAB® genius² and simplex² when an increased resistance to chemicals is required (see media table pg. 11).

Description	External thread	Bottle neck threads	PU	Cat. No.
NS-adapter, PP	GL 32	NS 19/26	1	1670066
NS-adapter, PP	GL 32	NS 24/29	1	1670067
NS-adapter, PP	GL 32	NS 29/32	1	1670068
Thread adapter, PP	GL 32	GL 25	1	1670150
Thread adapter, PP	GL 32	GL 28	1	1670155
Thread adapter, PP	GL 45	GL 32	1	1670180
Thread adapter, PP	GL 45	GL 38	1	1670110
Thread adapter, PP	GL 45	S 40	1	1670120
Thread adapter, ETFE	GL 32	GL 25	1	1670072
Thread adapter, ETFE	GL 32	GL 28	1	1670080
Thread adapter, ETFE	GL 45	GL 32	1	1670100
Thread adapter, ETFE	GL 45	GL 38	1	1670115
Thread adapter, PTFE	GL 45	S 40	1	1670125

Dosing

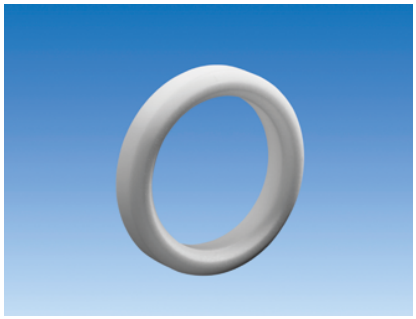
Telescopic filling tubes for VITLAB® dispensers



Telescopic filling tube made of FEP, ETFE and PTFE.

Suitable for dispenser with nominal volume	Outer-Ø mm	Length mm	PU	Cat. No.
2/5/10 ml	6.0	70-140	1	1678210
2/5/10 ml	6.0	125-240	1	1678212
2/5/10 ml	6.0	195-350	1	1678214
2/5/10 ml	6.0	250-480	1	1678216
25/50/100 ml	7.6	170-330	1	1678218
25/50/100 ml	7.6	250-480	1	1678220

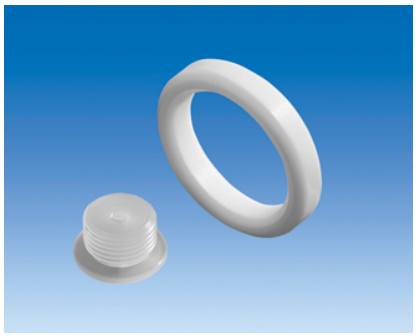
Sealing ring for the valve block for VITLAB® dispensers



Sealing ring for valve block made of PTFE for dosing highly volatile media.

Description	PU	Cat. No.
Sealing ring for valve block	1	1671683

Ventilation plug for micro filter for VITLAB® genius² and simplex²



PP, with Luer-cone and sealing ring (PTFE).

Description	PU	Cat. No.
Ventilation plug for micro filter	1	1671682

Dispensing cartridge for VITLAB® TA²



Calibrated, including safety ring, with quality certificate. Nominal volume 10 ml.

Description	PU	Cat. No.
Dispensing cartridge	1	1670702

Dosing



VITLAB® piccolo

For dispensing tiny quantities of liquids in all areas of biochemical and medical research.

Even the **smallest quantities can be dispensed directly from the bottle** with the VITLAB® piccolo - a big help, particularly for serial dispensing operations. Special advantage: Pipette tips are unnecessary. This reduces costs.
The ergonomic design makes dispensing effortless and stress-free. The VITLAB® piccolo **can be operated with only one hand**. Use the thumb to depress the volume dispensing button, just as with a pipette, and a reset mechanism refills the volume automatically.
The discharge tube can be rotated over 360° so that it is always optimally situated with respect to the bottle label.
The VITLAB® bottletop dispensers piccolo 1 and piccolo 2 are used mainly in connection with aqueous and highly diluted agents.

VITLAB® piccolo 1 with a fixed volume
VITLAB® piccolo 2 with two fixed volumes

Included in delivery:
VITLAB® piccolo 1 or 2 (GL 28 threads), mounting tool, quality certificate and operating manual.

Type	Volume µl	A* ≤ ± %	CV* ≤ %	PU	Cat. No.
piccolo 1	100	3.0	0.4	1	1610501
piccolo 1	200	2.5	0.4	1	1610502
piccolo 1	250	2.0	0.4	1	1610503
piccolo 1	500	1.5	0.3	1	1610504
piccolo 1	1000	1.0	0.2	1	1610506
piccolo 2	100 / 250	2.0	0.4	1	1611503
piccolo 2	500 / 1000	1.0	0.2	1	1611506
piccolo 2	1000 / 2000	1.0	0.2	1	1611508

* Error tolerance conforming to DIN EN ISO 8655-5, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing.

Dosing

Adapter for VITLAB® piccolo



For securely screwing the dispenser onto reagent bottles with GL screw threading.

Description	External thread	Bottle neck threads	PU	Cat. No.
Thread adapter, PP	GL 28	GL 32	1	1670145

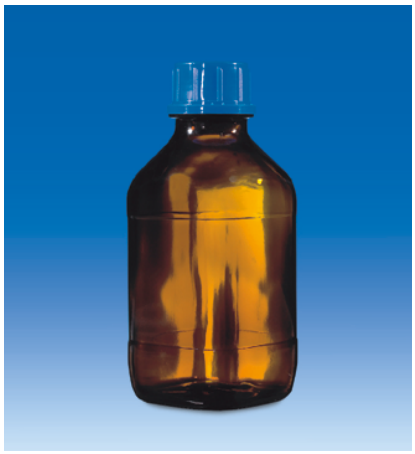
Bottles for VITLAB® piccolo, PE-HD



Transparent. With screw cap made of PP. Space-saving due to the square cross-section and the high shoulders.

Volume ml	Thread	Height mm	Dimension mm	PU	Cat. No.
100	GL 32	78	46 x 46	24	92489
250	GL 28	80	80 x 80	24	91989
500	GL 32	106	90 x 90	12	92089
1000	GL 32	187	80 x 80	12	92189

Brown glass bottles for VITLAB® piccolo



Threaded brown glass (soda lime glass) bottles with an ethylene acrylate coating for increased safety, and a screw cap. The plastic coating significantly reduces hazardous glass splintering during breakage. The maximum working temperature for coated bottles is 80 °C. To preserve the coating, do not clean at temperatures exceeding 60 °C.

Volume ml	Form	Thread GL	PU	Cat. No.
100	round	28	1	1671505
100	square	32	1	1671506

Pipetting

Pipetting with precision and comfort

Instruments that ensure highest precision and are furthermore easy and fast to operate, are required in the daily lab routine

The variable VITLAB® micropipettes have all features required by the user: robustness, ergonomic shape, ease of operation, complete autoclavability and high accuracy with simple calibration for long-lasting reliability. The micropipettes are light-weight due to the use of innovative plastic materials that contribute to a comfortable handling – you will feel the difference!

General information



VITLAB® micropipette



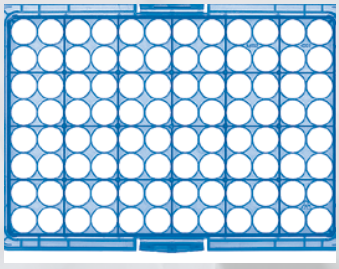
VITLAB® micropipette Starter-Sets



Accessories



Pipette tips





VITLAB® micropipette

121°C

The VITLAB® piston-operated pipettes are the ideal manual pipettes for demanding laboratory applications, and have all the features required by users: robust, with ergonomic shape and simple operation, completely autoclavable, highly accurate with simple calibration for long-lasting reliability.

The large, central pipetting button provides a uniform and smooth movement of the piston. For rapid replacement of the tips, the ergonomic eject button is placed easily accessible to the thumb on the front side. The VITLAB® micropipette is easy to use for both right- and left-handers. The 4-digit volume display with integrated zoom function and vertical arrangement of the numbers (top to bottom reading direction) ensures an **optimal readability of the volume** at all times. The desired volume can be set by rotating the volume-setting wheel with ease and precision. The clearly visible colour-coded frame of the volume display allows easy selection of the right pipette tip.

If necessary, e.g. for applications with non-aqueous solutions, the **integrated calibration function allows an adjustment without tools directly in the laboratory**. The corrosion-resistant piston and ejector ensure a long product life.

The micropipette is completely autoclavable at 121 °C (2 bar) according to DIN EN 285. Also available with DAkkS calibration certificate (at additional cost).

Included in delivery: VITLAB® micropipette, silicone grease, sample bag with pipette tips, quality certificate, and operating manual.

Volume µl	A* ≤ ± %	A* ≤ ± µl	CV* ≤ %	CV* ≤ µl	Tip µl	PU	Cat. No.
0.5 - 10	1.0	0.1	0.5	0.05	20	1	1641000
2 - 20	0.8	0.16	0.4	0.08	200	1	1641002
10 - 100	0.6	0.6	0.2	0.2	200/300	1	1641004
20 - 200	0.6	1.2	0.2	0.4	200/300	1	1641006
100 - 1000	0.6	6	0.2	2	1000	1	1641008
500 - 5000	0.6	30	0.2	10	5000	1	1641010
1000 - 10000	0.6	60	0.2	20	10000	1	1641012

* Calibrated to deliver ‚Ex'. * Accuracy and coefficient of variation based on the nominal volume (= maximum volume) printed on the instrument, if instrument, environment and distilled water are at the same temperature (20 °C), as well as uniform, jerk-free handling. The margins of error are under those specified in DIN EN ISO 8655-2.

VITLAB® micropipette Starter-Sets

Each VITLAB® Starter Set includes 3 variable VITLAB® micropipettes with different volumes
and associated, color-coded tip boxes, as well as 3 rack mounts for appropriate storage of
your new VITLAB® micropipettes.

Our micropipettes are completely autoclavable at 121 °C (2 bar) according to DIN EN 285.



Starter Set “Mini”

Scope of delivery:
- VITLAB® micropipette 0.5 - 10 µl
- VITLAB® micropipette 10 - 100 µl
- VITLAB® micropipette 100 - 1000 µl
- Tip-Box 0.5 - 20 µl
- Tip-Box 2 - 200 µl
- Tip-Box 50 - 1000 µl
- Rack mount (3x)

Cat. No.: 33331

Starter Set “Classic”

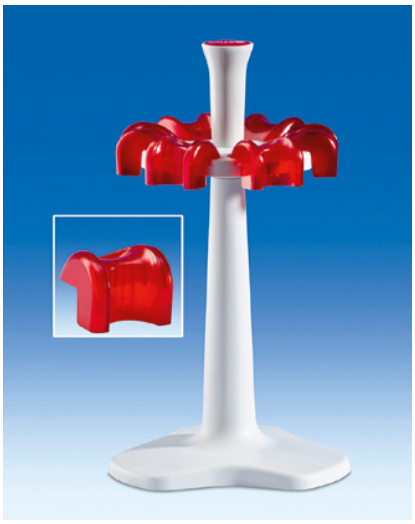
Scope of delivery:
- VITLAB® micropipette 2 - 20 µl
- VITLAB® micropipette 20 - 200 µl
- VITLAB® micropipette 100 - 1000 µl
- Tip-Box 2 - 200 µl (2x)
- Tip-Box 50 - 1000 µl
- Rack mount (3x)

Cat. No.: 33332

Starter Set “Maxi”

Scope of delivery:
- VITLAB® micropipette 100 - 1000 µl
- VITLAB® micropipette 500 - 5000 µl
- VITLAB® micropipette 1000 - 10000 µl
- Tip-Box 50 - 1000 µl
- Tip-Box 0.5 - 5 ml
- Tip-Box 1 - 10 ml
- Rack mount (3x)

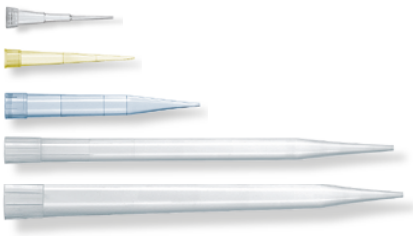
Cat. No.: 33333



Accessories for VITLAB® micropipettes

With the practical rack mount and freely rotatable bench-top stand, VITLAB® micropipettes can be stored safely and ready to use.

Description	PU	Cat.No.
Wall mount for 1 pipette	1	1672000
Bench-top stand for 6 pipettes	1	1672002
Filter for pipette, 5 ml	25	1672010
Filter for pipette, 10 ml	25	1672012
Silicone grease for pipettes, up to 1000 µl	1	1672015
Silicone grease for pipettes 5 ml / 10 ml	1	1672016



Pipette tip selection guide
Which pipette tip will fit my VITLAB® micropipette?

Nennvolumen VITLAB® micropipette							Spitzenvolumen
10 µl	20 µl	100 µl	200 µl	1000 µl	5 ml	10 ml	
◆							0,5 - 20 µl
	◆	◆	◆				2 - 200 µl
				◆			50 - 1000 µl
					◆		0,5 - 5 ml
						◆	1 - 10 ml

VITLAB® pipette tips

VITLAB® pipette tips are made from high-quality polypropylene and are autoclavable at 121 °C (2 bar) according to DIN EN 285. The raw material used is free from additives such as DiHEMDA (di(2-hydroxyethyl)methyldodecyl-ammonium) and oleamide (9-octadecenamide) that often cause interference, particularly in biological labs. All palletized pipette tips up to 1000 µl are **free of DNA (< 40 fg), RNase (< 8.6 fg), endotoxins (< 1 pg) and ATP (< 1 fg)**.

Furthermore, the tips are compatible with most pipette models from BRAND, GILSON®, Thermo Fisher Scientific FINNPIPETTE®, Eppendorf® and sartorius® Biohit®. The 5 ml tip is only tested for VITLAB, BRAND and Thermo Fisher Scientific FINNPIPETTE®. The 10 ml tip is only tested for VITLAB, BRAND and Eppendorf®. Note: Pipette shafts are subject to modification and should be checked before use. The fit depends on the manufacturer, pipette type, serial number, and date of manufacture, among other things.

Packaging variations

VITLAB® pipette tips are available in the variations palletized in the Tip-Box and packed in bags. Additionally, empty Tip-Boxes for self-filling are available. Tip-Boxes up to 1000 µl are stackable and their format conforms to the common 96 (8x12) unit format.



Resealable bags

All tips up to 1000 µl are produced under cleanroom conditions, automatically shrink-wrapped in reclosable bags and packaged in cartons. The article number, volume range and lot number of the tips are printed on every bag.



Tip-Box (up to 1000 µl)

PP box with functional hinged and snap-on lid. For all volume ranges up to 1000 µl in practical 8x12 format. Stackable and autoclavable at 121 °C according to DIN EN 285.



Tip-Box 5/10 ml

PP box with fitted lid. Filled with 5 ml (28 pcs.) or 10 ml (18 pcs.) tips. The box is autoclavable at 121 °C according to DIN EN 285.

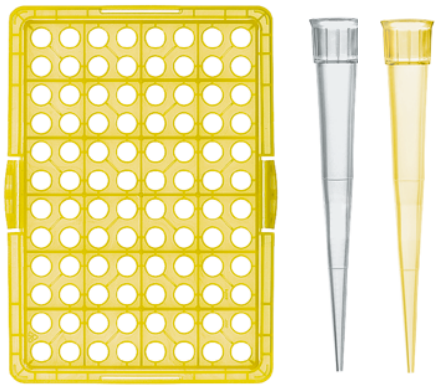


Pipette tips, 0.5 – 20 µl

121°C

PP, non-sterile with graduation at 2 and 10 µl. Length: 46 mm. Slim tip for contact-free pipetting into microtiter plates. Tip-Box with gray mounting plate for easy identification; palletized tips are colourless.

Variation	Packaging	PU	Cat. No.
Bag, Standard	2 bags with 1000 tips	2000	148894
Bag, Maxi	10 bags with 1000 tips	10000	155494
Tip-Box, filled	Box with 96 tips on gray mounting plate	5	149794
Tip-Box, empty	Box with gray mounting plate, without tips	1	155400



Pipette tips, 2 – 200 µl

121°C

PP, non-sterile with graduation at 20 and 100 µl. Length: 50 mm. Tip-Box with yellow mounting plate for easy identification; palletized tips are colourless. Tips in bags are coloured yellow.

Variation	Packaging	PU	Cat. No.
Bag, Standard	1 bag with 1000 tips	1000	148994
Bag, Maxi	10 bags with 1000 tips	10000	155694
Tip-Box, filled	Box with 96 tips on yellow mounting plate	5	149994
Tip-Box, empty	Box with yellow mounting plate, without tips	1	155600

Pipetting

Pipette tips, 50 - 1000 µl

121°C



PP, non-sterile with graduation at 250, 500 and 1000 µl. Length: 70 mm. Tip-Box with blue mounting plate; palletized tips are colourless. Tips in bags are coloured blue.

Variation	Packaging	PU	Cat. No.
Bag, Standard	2 bags with 500 tips	1000	149194
Bag, Maxi	10 bags with 500 tips	5000	155994
Tip-Box, filled	Box with 96 tips on blue mounting plate	5	150194
Tip-Box, empty	Box with blue mounting plate, without tips	1	155900

Pipette tips, 0.5 - 5 ml

121°C



PP, non-sterile. Length: 160 mm. Diameter: approx. 9.6 mm.
Slim shape for pipetting into narrow vessels such as measuring flasks with NS 12/21.

Variation	Packaging	PU	Cat. No.
Bag, Standard	1 bag with 200 tips	200	146294
Tip-Box, filled	Box with 28 tips	1	150294

Pipette tips, 1 -10 ml

121°C



PP, non-sterile. Length: 156.5 mm. Diameter: approx. 15 mm.

Variation	Packaging	PU	Cat. No.
Bag, Standard	2 bags with 100 tips	200	146494
Tip-Box, filled	Box with 18 tips	1	150394

Titration

Targeted and accurate titration

Chemical volumetric analysis with small liquid volumes requires substantial concentration

The devices you use for titration must allow you to carry out your work easily and safely and, above all, provide the precision you expect. VITLAB specializes in devices for titration and precise volumetric dispensing and offers a broad range of devices for volumetric analysis such as conventional burettes, titration apparatus and highly developed bottle-top burettes. Plastic coated burettes provide a higher safety level in the lab due to the splinter protection of the tube. Thanks to innovative technologies, the bottle-top burette VITLAB® continuous enables continuous titration, which leads to rapid, convenient, and accurate results.

VITLAB® continuous E/RS



Drying tube



Telescopic filling tube



Bottles













VITLAB® continuous E/RS

CE

The VITLAB® continuous bottle-top burette (Figure 1) enables continuous titration, which leads to fast, convenient and accurate results. The angled display shows 4-position titration volume in large, easily read numbers (Figure 2), which simplifies operation. Turning the two hand wheels supplies the titration medium in a **continuous and pulse-free** manner via the specially developed double-piston pump (Figure 3). Filling procedures are not necessary. This innovative technology increases safety; its compact design and low centre of gravity reduce risk of falling over, especially with smaller bottles.The height and length of the discharge tube can be adjusted, making it possible to work safely with both short and tall bottles. The innovative recirculation system (Figure 4) **prevents the loss of valuable reagent** and reduces the risk of splashes. With its simple-to-use calibration function, VITLAB® continuous fulfils the corresponding requirements for test equipment monitoring without instrument downtime. Margins of error are under those specified in the DIN EN ISO 8655-3 standard, even for partial volumes. Also available with DAkkS calibration certificate (at additional cost).

Included in delivery:
VITLAB® continuous E/RS (GL 45 thread), 3 PP thread adapters (GL 32, GL 38 and S 40), telescopic filling tube (200 - 350 mm), telescopic discharge tube (140 - 220 mm), two microbatteries 1.5 V (LR 03/AAA), quality certificate and operating manual.

Type	Nominal volume ml	A* ≤ ± %	CV* ≤ %	PU	Cat. No.
E	25	0.2 at 25 ml	0.1 at 25 ml	1	1620506
RS	50	0.2 at 50 ml	0.1 at 50 ml	1	1620507

* Error tolerance conforming to DIN EN ISO 8655-3, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing.

The VITLAB® continuous E/RS bottle-top burette can be used for the following titrants up to a concentration of **1 mol/L**:

Acetic acid	Potassium hydroxide
Ammonium iron (II) sulphate solution	Potassium iodate solution
Ammonium thiocyanate solution	Potassium permanganate solution
Barium chloride solution	Potassium thiocyanate solution
Bromide bromate solution	Silver nitrate solution
Cerium (IV) sulphate solution	Sodium arsenite solution
EDTA solution	Sodium carbonate solution
Hydrochloric acid	Sodium chloride solution
Iron (II) sulphate solution	Sodium hydroxide
Nitric acid	Sodium nitrite solution
Oxalic acid solution	Sodium thiosulphate solution
Perchloric acid	Sulphuric acid
Potassium bromate solution	Tetra-n-butylammonium hydroxide solution
Potassium bromide / bromate solution	Zinc sulphate solution
Potassium dichromate solution	

The recommendations in this table have been carefully tested and reflect the most current information available. Always follow the instruction manual for the instrument as well as the reagent manufacturer's specifications. Should you require information on chemicals not listed, please do not hesitate to contact us. As at 03/17.

Adapter for VITLAB® continuous E/RS



For secure screwing of the burettes onto reagent bottles with an NS neck, GL screw threading or an S buttress thread.

Description	External thread	Bottle neck threads	PU	Cat. No.
NS-adapter, PP	GL 32	NS 19/26	1	1670066
NS-adapter, PP	GL 32	NS 24/29	1	1670067
NS-adapter, PP	GL 32	NS 29/32	1	1670068
Thread adapter, PP	GL 32	GL 28	1	1670155
Thread adapter, PP	GL 45	GL 32	1	1670180
Thread adapter, PP	GL 45	GL 38	1	1670110
Thread adapter, PP	GL 45	S 40	1	1670120
Thread adapter, ETFE	GL 32	GL 28	1	1670080
Thread adapter, ETFE	GL 45	GL 32	1	1670100
Thread adapter, ETFE	GL 45	GL 38	1	1670115
Thread adapter, PTFE	GL 45	S 40	1	1670125

Drying tube for VITLAB® continuous E/RS



PP, transparent, unfilled. Can be connected directly to the burette.

Description	PU	Cat. No.
Drying tube, PP, unfilled	1	1671095

Telescopic filling tube for VITLAB® continuous E/RS



For the filling of titration medium from bottles of different heights.

Description	Length mm	PU	Cat. No.
Telescopic filling tube, FEP, ETFE, PTFE	200 - 350	1	1671085

Bottles for VITLAB® continuous E/RS



Threaded brown glass (soda lime glass) bottles with an ethylene acrylate coating.

Volume ml	Thread GL	Shape	PU	Cat. No.
1000	45	square	1	1671500
2500	45	round	1	1671510

Volume measurement

Measurement to the highest degree

Volume measurement is of utmost importance in routine laboratory operations

Volumetric instruments are standard equipment in each analytical laboratory. VITLAB has decades of experience and resulting know-how in the development and production of laboratory products which are used to measure volumes. We offer you a diverse product selection of highly developed precision instruments for a variety of different liquid handling applications as well as conformity-certified DIN ISO-compliant Class A volumetric measurement devices.

General information



Volumetric flasks



Graduated cylinders



Pipettes



Pipette controllers



Pipette accessories



Calibration certificates

For all volumetric instruments that are subject to test equipment monitoring, a written documentation about the regularly calibration resp. volume control is necessary. The documentation should contain the values for accuracy and coefficient of variation as well as the testing procedure and test frequency. A distinction is made between:

- Quality certificates (factory calibration report)
- Official calibration certificates (Bureau of standards, DAkkS)

Quality certificates

The VITLAB quality certificate is a factory calibration report on the basis of the quality assurance system according to DIN EN ISO 9001. Quality certificates are available as a batch or individual certificate. Devices from one production batch have the same lot number as the quality certificate. The certificate records for the specific batch the mean value, standard deviation and day of issue. In the case of an individual certificate*, the volumetric instrument and the certificate bear an individual serial number in addition to the lot number. The certificate records besides the day of issue also the measured volume and the measurement uncertainty.

DAkkS calibration certificate

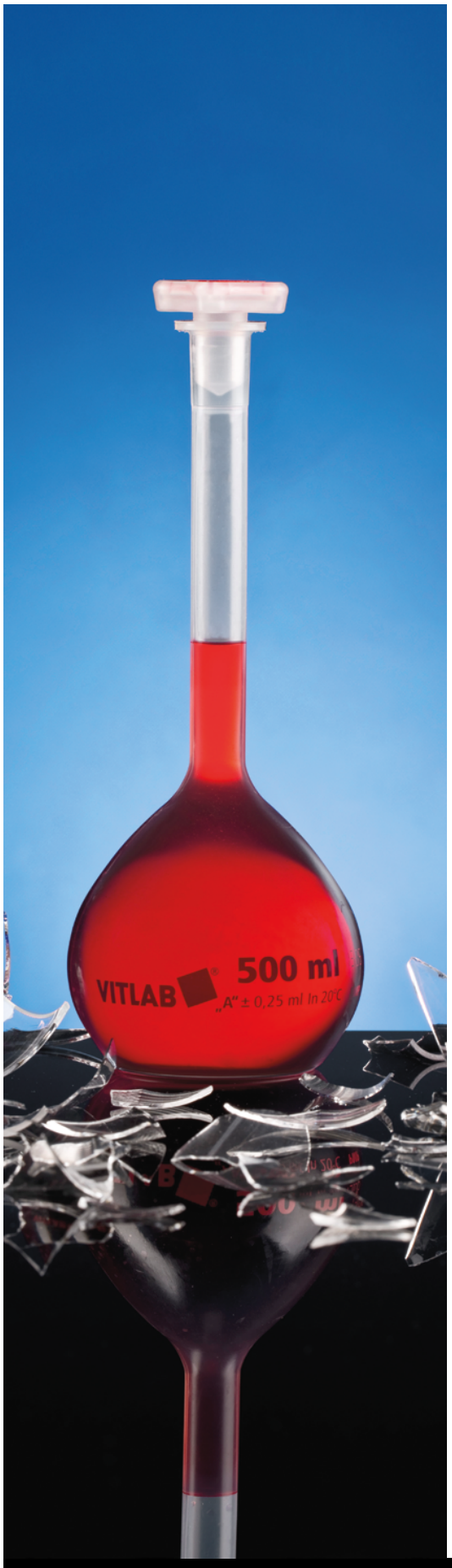
The DAkkS calibration certificate* documents officially the traceability of measuring results to national and international standards as required by the standards DIN EN ISO 9001 and DIN EN ISO / IEC 17025 for the monitoring of measuring instruments. A major difference between factory calibration services and DAkkS laboratories is the accurate determination of the respective uncertainty of measurement guaranteed by the accredited laboratory and supervised by the DAkkS. DAkkS calibration certificates are appropriate in uses in which calibrations of an accredited laboratory are requested, where high level calibrations are demanded and for calibration of reference standards and instruments for comparative measurements.

Calibration service

VITLAB offers a repair, maintenance and calibration service (incl. DAkkS calibration) for all Liquid Handling devices made by VITLAB. The calibration laboratory accredited by the „Deutsche Akkreditierungsstelle GmbH“ (DAkkS) is authorized to issue DAkkS Calibration certificates for the following instruments: Liquid Handling products like VITLAB piston-operated pipettes and burettes, VITLAB dispensers and VITLAB volumetric plastic labware.

* Available at additional cost

Volume measurement



Volume measurement is a routine laboratory operation. Therefore, volumetric instruments such as volumetric flasks, measuring cylinders and pipettes are standard equipment in any analytical laboratory.

The importance of the standard of measurement accuracy in your routine laboratory operations cannot be overstated. VITLAB has decades of experience in the development and production of laboratory products which are used to measure volumes.

VITLAB is the first manufacturer to produce Class A measuring cylinders from PMP that are certified compliant according to DIN 12681.

All Class A PMP volumetric flasks are optionally available in transparent or UV-absorbing variations for light-sensitive substances.

Calibration

Type "Ex": The delivered quantity of liquid corresponds to the volume printed on the instrument (pipettes and burettes).

Type "In": The contained quantity of liquid corresponds to the volume printed on the instrument (volumetric flasks and measuring cylinders).

VITLAB calibrates each individual volumetric flask "to contain" (In) at a reference temperature of 20 °C.

The hydrophobic characteristics of the materials in plastic volumetric instruments lead to the measured volume being the same as the delivered quantity ("In" = "Ex") for aqueous solutions.

Accuracy classes

Class A: The volume tolerances lie within the limits specified by DIN and ISO.

Class B: The volume tolerances are twice the error limits for Class A specified by DIN and ISO. Detailed explanations on "accuracy in volume measurement" are available in the chapter on "General and Technical Information".

Certificate of conformity

The DE-M marking is VITLAB's guarantee that the respective products comply with the German Measurement and Calibration Regulation. The special manufacturing process developed by VITLAB, and the proven VITLAB quality management system, ensure compliance with the volume tolerances specified by the standards.





Volumetric flasks, PFA, Class A, with screw cap, PFA

Highly transparent.
Ring mark individually calibrated to `In´.
Class A tolerances according to DIN EN ISO 1042.
The PFA screw cap guards against contamination.
Outstanding chemical resistance, can be used with strong oxidants, highly concentrated acids and alkalis, hydrocarbons, and ketones.
With laser-engraved lot number and batch certificate. Thermal stress up to 121 °C (autoclaving) does not permanently exceed the tolerance limit.
To preserve the ring mark, do not clean at temperatures exceeding 60 °C.
Also available with DAkkS calibration certificate or individual quality certificate (at additional cost).

The advantages of PFA:

- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no cross-contamination due to the extremely hydrophobic, anti-adhesive and smooth surfaces
- High thermal stability, from -200 °C to +260 °C
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability, suitable for volumetric instruments
- Easy to clean
- Use of high purity raw materials

Volume ml	Tolerance ± ml	Height* mm	Thread GL	PU	Cat. No.
10	0.04	90	18	2	107097
25	0.04	115	18	2	107197
50	0.06	150	18	2	107297
100	0.10	180	18	2	107397
250	0.15	235	25	2	107497
500	0.25	270	25	2	107597

* Height without screw cap

Compare: VITLAB® volumetric flasks …

… have a circular, precisely calibrated ring mark with which the meniscus can be read accurately from any position
… have a straight neck for precise volume measurement
… have a specially formed bottom for superior stability

… are MADE IN GERMANY

Volume measurement

VITLAB® UV-protect volumetric flasks, PMP, Class A with NS stoppers, PP



UV-absorbing, highly transparent. For storage of light-sensitive substances.

With ring mark individually calibrated to 'In'.
Class A tolerances according to DIN EN ISO 1042.
With printed lot number and batch certificate.
Thermal stress up to 121 °C (autoclaving) does not permanently exceed the tolerance limit.
To preserve markings, cleaning at no higher than 60 °C is recommended.
Also available with DAkkS calibration certificate or individual quality certificate (at additional cost).
More information on VITLAB® UV-protect can be found on page 124.

Volume ml	Tolerance ± ml	Height* mm	Neck NS	PU	Cat. No.
10	0.04	90	10/19	2	670950
25	0.04	115	10/19	2	671950
50	0.06	150	12/21	2	672950
100	0.10	180	14/23	2	673950
250	0.15	235	19/26	2	674950
500	0.25	270	19/26	2	675950
1000	0.40	310	24/29	1	676950

* Height without stopper

VITLAB® UV-protect replaces brown glass and is…
… substantially lighter in weight
… practically unbreakable
… practically impermeable in the UV region
... comparable to a light protection factor of 20

Volumetric flasks, PMP, Class A with NS stoppers, PP



Highly transparent.
With ring mark individually calibrated to 'In'.
Class A tolerances according to DIN EN ISO 1042.
With printed lot number and batch certificate.
Thermal stress up to 121 °C (autoclaving) does not permanently exceed the tolerance limit.
To preserve markings, cleaning at no higher than 60 °C is recommended.
Also available with DAkkS calibration certificate or individual quality certificate (at additional cost).

Volume ml	Tolerance ± ml	Height* mm	Neck NS	PU	Cat. No.
10	0.04	90	10/19	2	67704
25	0.04	115	10/19	2	67104
50	0.06	150	12/21	2	67204
100	0.10	180	14/23	2	67304
250	0.15	235	19/26	2	67404
500	0.25	270	19/26	2	67504
1000	0.40	310	24/29	1	67604

* Height without stopper



Volumetric flasks, PMP, Class B with NS stoppers, PP

Highly transparent.
With ring mark individually calibrated to 'In'.
Class B tolerances according to DIN EN ISO 1042.
Thermal stress up to 121 °C (autoclaving) does not permanently exceed the tolerance limit.
To preserve markings, cleaning at no higher than 60 °C is recommended.

Volume ml	Tolerance ± ml	Height* mm	Neck NS	PU	Cat. No.
10	0.08	90	10/19	2	67795
25	0.08	115	10/19	2	67195
50	0.12	150	12/21	2	67295
100	0.20	180	14/23	2	67395
250	0.30	235	19/26	2	67495
500	0.50	270	19/26	2	67595
1000	0.80	310	24/29	1	67695

* Height without stopper



Volumetric flasks, PMP, Class B with screw caps, PP

Highly transparent.
With ring mark individually calibrated to 'In'.
Class B tolerances according to DIN EN ISO 1042.
Thermal stress up to 121 °C (autoclaving) does not permanently exceed the tolerance limit.
To preserve markings, cleaning at no higher than 60 °C is recommended.

Volume ml	Tolerance ± ml	Height* mm	Thread GL	PU	Cat. No.
10	0.08	90	18	2	677895
25	0.08	115	18	2	671895
50	0.12	150	18	2	672895
100	0.20	180	18	2	673895
250	0.30	235	25	2	674895
500	0.50	270	25	2	675895
1000	0.80	310	32	1	676895

* Height without screw cap

Volume measurement

Volumetric flasks, PP, Class B with NS stoppers, PP



Highly transparent.
With ring mark individually calibrated to 'In'.
Class B tolerances according to DIN EN ISO 1042.
Thermal stress up to 60 °C does not permanently exceed the tolerance limits.
To preserve markings, cleaning at no higher than 60 °C is recommended.

Volume ml	Tolerance ± ml	Height* mm	Neck NS	PU	Cat. No.
10	0.08	90	10/19	2	677941
25	0.08	115	10/19	2	671941
50	0.12	150	12/21	2	672941
100	0.20	180	14/23	2	673941
250	0.30	235	19/26	2	674941
500	0.50	270	19/26	2	675941
1000	0.80	310	24/29	1	676941

* Height without stopper

Volumetric flasks, PP, Class B, with screw cap, PP

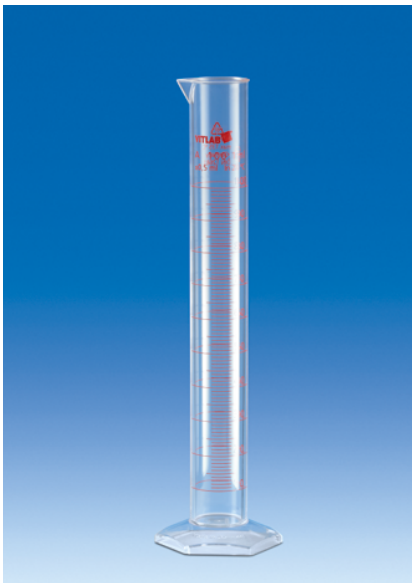


Highly transparent.
With ring mark individually calibrated to 'In'.
Class B tolerances according to DIN EN ISO 1042.
Thermal stress up to 60 °C does not permanently exceed the tolerance limits.
To preserve markings, cleaning at no higher than 60 °C is recommended.

Volume ml	Tolerance ± ml	Height* mm	Thread GL	PU	Cat. No.
10	0.08	90	18	2	677891
25	0.08	115	18	2	671891
50	0.12	150	18	2	672891
100	0.20	180	18	2	673891
250	0.30	235	25	2	674891
500	0.50	270	25	2	675891
1000	0.80	310	32	1	676891

* Height without screw cap

Volume measurement



Graduated cylinders, PMP, Class A, tall form, red printed graduations

Highly transparent. DE-M marked.
With red printed graduations and ring marks at the primary scale points, calibrated 'In'. The lot certificate supplied bears the batch number and the actual nominal value ascertained under the test conditions. The resulting deviations from the nominal value fall well under the allowed tolerances of Class A according to DIN 12681 and ISO 6706. With printed batch number and year of production. Also available with DAkkS calibration certificate or individual quality certificate (at additional cost).
Hexagonal base with bottom studs provides high stability. To preserve markings, do not clean at temperatures exceeding 60 °C. Thus, conditionally autoclavable at 121 °C (2 bar) according to DIN EN 285. For autoclaving we recommend the design with molded graduations (Cat.-No. 64604 – 65304).

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
10	0.10	0.20	145	15	2	64614
25	0.25	0.50	170	22	2	64714
50	0.50	1.00	200	27	2	64814
100	0.50	1.00	250	33	2	64914
250	1.00	2.00	315	44	2	65014
500	2.50	5.00	360	58	2	65114
1000	5.00	10.00	440	69	1	65214
2000	10.00	20.00	535	97	1	65414



Graduated cylinders, PMP, Class A, tall form, molded graduations

Highly transparent. DE-M marked.
With molded graduations and ring marks at the primary scale points, calibrated 'In'. The lot certificate supplied bears the batch number and the actual nominal value ascertained under the test conditions. The resulting deviations from the nominal value fall well under the allowed tolerances of Class A according to DIN 12681 and ISO 6706. With the laser engraved batch number and the year of manufacture. Also available with DAkkS calibration certificate or individual quality certificate (at additional cost).
Hexagonal base with bottom studs provides high stability. Thermal stress up to 121 °C (autoclaving) does not cause tolerance limits to be permanently exceeded.

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
10	0.10	0.20	145	15	2	64604
25	0.25	0.50	170	22	2	64704
50	0.50	1.00	200	27	2	64804
100	0.50	1.00	250	33	2	64904
250	1.00	2.00	315	44	2	65004
500	2.50	5.00	360	58	2	65104
1000	5.00	10.00	440	69	1	65204
2000	10.00	20.00	482	97	1	65304

Volume measurement

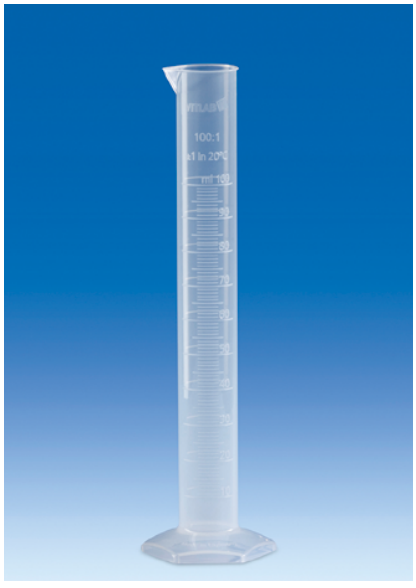
Graduated cylinders, PP, Class B, tall form, with molded blue graduations



Highly transparent.
With easily readable, molded, embossed blue graduations and ring marks at the primary scale points. Calibrated 'In'. Class B tolerances according to DIN 12681 / ISO 6706.
Hexagonal base with bottom studs provides high stability. Thermal stress up to 80 °C does not cause tolerance limits to be permanently exceeded. To preserve markings, do not clean at temperatures exceeding 60 °C.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
10	0.20	0.20	145	15	12	646081
25	0.50	0.50	170	22	12	647081
50	1.00	1.00	200	27	12	648081
100	1.00	1.00	250	33	12	649081
250	2.00	2.00	315	44	6	650081
500	5.00	5.00	360	58	6	651081
1000	10.00	10.00	440	69	6	652081
2000	20.00	20.00	482	97	3	653081

Graduated cylinders, PP, Class B tall form, with molded graduations



Highly transparent.
With molded graduations and ring marks at the primary scale points, calibrated 'In'.
Class B tolerances according to DIN 12681 / ISO 6706.
Hexagonal base with bottom studs provides high stability. Thermal stress up to 80 °C does not cause tolerance limits to be permanently exceeded.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
10	0.20	0.20	145	15	12	646941
25	0.50	0.50	170	22	12	647941
50	1.00	1.00	200	27	12	648941
100	1.00	1.00	250	33	12	649941
250	2.00	2.00	315	44	6	650941
500	5.00	5.00	360	58	6	651941
1000	10.00	10.00	440	69	6	652941
2000	20.00	20.00	482	97	3	653941

Volume measurement



Graduated cylinders, SAN, Class B tall form, with molded graduations

Crystal clear.
With molded graduations and ring marks at the primary scale points, calibrated 'In'.
Class B tolerances according to DIN 12681 / ISO 6706.
Hexagonal base with bottom studs provides high stability. Thermal stress up to 60 °C does not cause tolerance limits to be permanently exceeded.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
50	1.00	1.00	199	28	12	64891
100	1.00	1.00	260	34	12	64991
250	2.00	2.00	315	47	6	65091
500	5.00	5.00	350	61	6	65191
1000	10.00	10.00	415	76	6	65291



Graduated cylinders, PP, Class B short form, with molded graduations

Highly transparent.
With molded graduations, calibrated 'In'.
Thermal stress up to 80 °C does not cause tolerance limits to be permanently exceeded.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
25	0.50	0.50	122	22	12	640941
50	1.00	1.00	142	27	12	641941
100	2.00	2.00	163	37	12	642941
250	5.00	5.00	192	51	6	643941
500	10.00	10.00	218	67	6	644941
1000	20.00	20.00	285	78	6	645941

Volume measurement

Graduated cylinders, SAN, Class B, short form, with molded graduations



Crystal clear.
With molded graduations, calibrated 'In'.
Thermal stress up to 60 °C does not cause tolerance limits to be permanently exceeded.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Tolerance ± ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
25	0.50	0.50	122	22	12	64091
50	1.00	1.00	142	27	12	64191
100	2.00	2.00	163	37	12	64291
250	5.00	5.00	192	51	6	64391
500	10.00	10.00	218	67	6	64491
1000	20.00	20.00	285	78	6	64591

Compare: VITLAB® graduated cylinders…

… have guaranteed seamless interiors, which mean the analysis is unaffected by residues and carryover
… have precise calibration ring marks at the primary scale points, with which the meniscus can be read accurately
… a sturdy, even stand for precise volume measurement

… are MADE IN GERMANY

Hydrometer cylinder, PP



Highly transparent, with spout and overflow vessel. For density measurements using a hydrometer. Hydrometer can be read through the overflow vessel with a completely filled cylinder.
With molded graduations and ring marks at the primary scale points, calibrated 'In'.
Class B tolerances according to DIN 12681 / ISO 6706.
Hexagonal base with bottom studs provides high stability. Thermal stress up to 80 °C does not cause tolerance limits to be permanently exceeded.

Volume ml	Graduation ml	Height mm	Ø mm	PU	Cat. No.
500	5.00	351	73	1	760941

Volume measurement

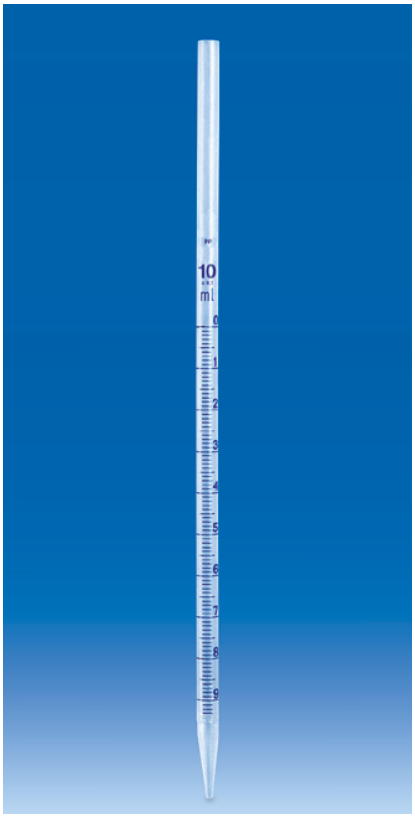


Bulb pipettes, PP, Class B

Calibrated to deliver 'Ex'.
Highly transparent. With high-contrast, blue markings.
Break-resistant.
High chemical resistance.

Exposure to temperatures above 60 °C can lead to volume changes.
Recommended cleaning with mild alkaline detergents up to 60 °C.

Volume ml	Tolerance ± ml	Length mm	PU	Cat. No.
1	0.02	300	12	164094
2	0.02	300	12	164194
5	0.03	300	6	164294
10	0.04	440	6	164394
25	0.05	450	6	164494
50	0.10	460	6	164594



Graduated pipettes, PP, Class B

Calibrated to deliver 'Ex'.
Highly transparent. With high-contrast, blue markings.
Break-resistant.
High chemical resistance.
Outer diameter of suction tube: max. 8 mm.

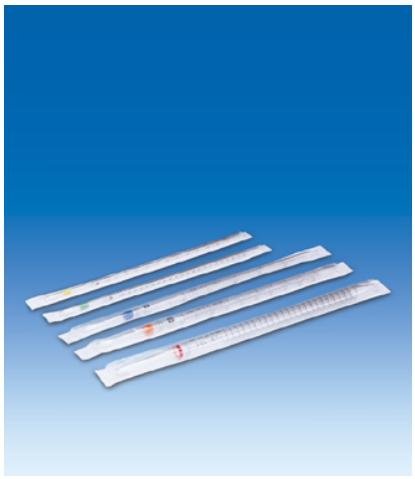
Exposure to temperatures above 60 °C can lead to volume changes.
Recommended cleaning with mild alkaline detergents up to 60 °C.

Volume ml	Tolerance ± ml	Graduation ml	Length mm	PU	Cat. No.
1	0.02	0.1	300	12	163094
2	0.02	0.1	300	12	163194
5	0.05	0.1	330	12	163294
10*	0.10	0.1	330	12	163394
10	0.10	0.1	320	12	163594

* Suction tube outer diameter: 10 mm

Volume measurement

Disposable pipettes, PS, sterile



Crystal clear, graduated, individual sterile packaging, pyrogen-free. Identified by bar-code. With cotton-wool filter.

Volume ml	Graduation ml	Length mm	PU	Cat. No.
1	0.01	272	1000	160110
2	0.01	272	1000	160210
5	0.10	320	500	160510
10	0.10	320	500	161010
25	0.20	345	250	162510

Disposable pipettes, PS, non-sterile



Crystal clear, graduated, non-sterile. Identified by bar-code. With cotton-wool filter.

Volume ml	Graduation ml	Length mm	PU	Cat. No.
1	0.01	272	200	160119
2	0.01	272	200	160219
5	0.10	320	100	160519
10	0.10	320	100	161019

Volume measurement



VITLAB pipeo®

CE

For all pipettes from 0.1 to 200 ml.
With the VITLAB pipeo® pipette controller, pipette handling is simple and comfortable. The ergonomic handle - **very light weight** at about 190 grams - and excellent balance all contribute to ease of operation. The speed can be adjusted easily, continuously and exactly with one hand using two buttons. A 50 ml pipette can be filled comfortably in less than ten seconds. The liquid release can be done either by gravity delivery when calibrated 'Ex' (to deliver), or in blow out mode using the battery-operated motor.
Pipettes are held securely and tightly in the exchangeable adapter. Liquid vapours are purged directly to protect the instrument.
One full charge of the nickel-metal hydride battery allows 8 hours of non-stop pipetting. The charge level of the recyclable battery is shown by the LED indicator. Defective batteries are easily replaced. To avoid surprises, the LED light changes from green to red two hours before the battery must be recharged. **The VITLAB pipeo® can still be operated while the battery is being recharged**.

Included in delivery:
VITLAB pipeo®, battery charger (100 - 240 V, 50/60 Hz), four plug adapters (EU, UK, US/J, AUS), battery, battery compartment cover, two replacement 0.2 µm membrane filters and operating manual.

Description	PU	Cat. No.
pipeo®	1	1631500

Volume measurement

VITLAB maneus®



The VITLAB maneus® Pipette Helper enables both left- and right-handers to operate all current volumetric and graduated pipettes from 0.1 to 200 ml easily and fatigue-free. Its safe and easy handling allows even inexperienced users **to adjust the meniscus precisely**.

With the design, unscrewing the adapter enables easy replacement of the hydrophobic membrane filter, which **protects the instrument against fluid penetration**.

The valve system is optimised so that liquids can be drawn up simply, without exerting pressure. The highly sensitive filling and discharge of liquids are controlled gently by the pipetting knob. Thus, the suction element provides rapid filling of the pipette (capacity: 50 ml in less than 10 seconds). The discharge bellows are used for the emptying (blow-out) of the pipette. The specially moulded intake cone ensures secure seating for all normal bulb and graduated pipettes (0.1 to 200 ml).

The VITLAB maneus® is simple to dismantle, easy to clean, and completely autoclavable at 121 °C (2 bar) according to DIN EN 285.

Included in delivery: VITLAB maneus®, replacement 3 µm membrane filter und operating manual.

Description	PU	Cat. No.
maneus®	1	1630500

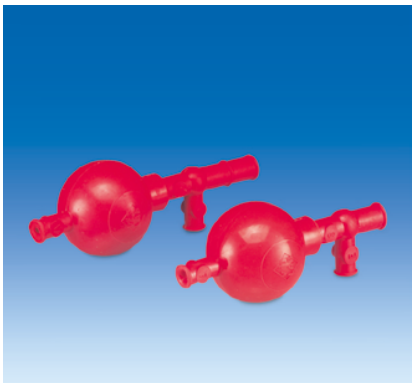
Accessories for VITLAB pipeo® & maneus®





Description	PU	Cat. No.
Membrane filter, 0.2 µm, sterile, VITLAB pipeo®	1	1670647
Membrane filter, 0.2 µm, non-sterile, VITLAB pipeo®	10	1670648
Membrane filter, 3 µm, non-sterile, VITLAB pipeo®, VITLAB maneus®	10	1670650
Wall rack, VITLAB pipeo®	1	1670660

Volume measurement



Pipette fillers, NR

Classic accessory for pipetting with volumetric or measuring pipettes. With 3 valves.
Valve A: Air release, Valve S: Liquid filling, Valve E: Liquid dispensing.

Type	PU	Cat. No.
Universal model, for pipettes up to 10 ml	1	104099
Universal model, for pipettes up to 100 ml	1	104199



Pipette fillers

For pipetting liquids, fit all glass and plastic pipettes. Slow rotation of the actuator-wheels draws liquid into the pipette. Pressing the air bleed valve automatically empties the pipette without returning the piston.

For pipettes ml	Colour	PU	Cat. No.
2	Blue	10	324594
10	Green	10	324694
25	Red	10	324794



Pipette stand, PP

Upper portion with 94 bore holes of different diameters for secure placement of volumetric and measuring pipettes of any size.
The stable base has a rotatable, ribbed base plate in which the pipette tips can be gently seated.
The racks are supplied unassembled, and can easily be assembled according to the accompanying assembly instructions.

Ø mm	Height mm	PU	Cat. No.
230	470	2	79194

Volume measurement

Pipette washer, PE-HD



For simple and basic cleaning of pipettes. With discharge siphon for an automatic water exchange.
The complete washing system includes the pipette washer, pipette jar (for pre-cleaning) and pipette basket (for dipping pipettes into the pipette washer or pipette jar). Pipette jars and pipette baskets need to be ordered separately.
Suitable for the use with pipette baskets (cat. nos. 80219 and 80222).

Ø mm	Height mm	Effective length mm	PU	Cat. No.
170	734	600	1	80217
170	990	840	1	80215

Pipette jars, PE-HD



For pre-cleaning pipettes in detergent solutions.
Suitable for the use with pipette baskets (cat. nos. 80219 and 80222).

Ø mm	Height mm	PU	Cat. No.
162	503	1	80221
162	650	1	80218

Pipette baskets, PE-HD



For dipping pipettes into the pipette jar or pipette-washer and for transferring pipettes.
Basket height 300 mm.
With the extension piece, the total height of the pipette basket (cat. no. 80219) increases from 650 to 870 mm.

Description	Ø mm	Overall height mm	PU	Cat. No.
Pipette basket	145	648	1	80219
Pipette basket	145	497	1	80222
Extension piece for the handle (pipette basket 80219)			2	81219

Measuring & Transferring

Competence in lab plastics

We work with the highest possible accuracy

VITLAB supports you with a wide range of useful labware made of plastic for your daily lab work. Our acknowledged expertise in the production and the processing of approved and pure plastics guarantees optimum results. The high break resistance and light-weight of plastic products noticeably facilitate lab work.

Graduated beakers



Buckets



Scoops



Forceps



Funnels





Graduated beakers, PP, molded blue graduations

Highly transparent. With easily readable, molded, embossed blue graduations, and stable, easy-grip handle. To preserve markings, do not clean at temperatures exceeding 60 °C. Conditionally autoclavable at 121 °C (2 bar) according to DIN EN 285. For autoclaving, we recommend the design with molded graduations (cat. nos. 440941 - 447941). Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
50	2	70	40	24	446081
100	2	80	50	24	447081
250	5	120	74	12	440081
500	10	140	92	12	441081
1000	10	181	117	6	442081
2000	20	213	152	6	443081
3000	50	242	172	6	444081
5000	50	270	204	6	445081



Graduated beakers, PP, molded graduations

Highly transparent. With molded graduations and stable, easy-grip handle.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
50	2	70	40	24	446941
100	2	80	50	24	447941
250	5	120	74	12	440941
500	10	140	92	12	441941
1000	10	181	117	6	442941
2000	20	213	152	6	443941
3000	50	242	172	6	444941
5000	50	270	204	6	445941

Measuring & Transferring

Graduated beakers, PP, nesting



Highly transparent. With stable handle and easily readable, printed black graduations on both sides. Therefore, the volume is equally visible for left- and right handers. With recess in the handle for better water drainage in the dishwasher. To preserve markings, cleaning at no higher than 60 °C is recommended. For autoclaving we recommend the design with molded graduations (cat. nos. 440941 - 447941).
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
250	5	115	75	12	480941
500	10	140	100	12	481941
1000	10	167	125	12	482941
2000	20	212	148	12	483941
3000	50	242	170	12	484941

Graduated beakers, PP, nesting, coloured



Graduated beakers in four different colours. Transparent, with stable handle and easily readable, printed graduations on both sides. Therefore, the volume is equally visible for left- and right handers. With recess in the handle for better water drainage in the dishwasher. To preserve markings, cleaning at no higher than 60 °C is recommended. For autoclaving we recommend the design with molded graduations (cat. nos. 440941 - 447941).
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Colour	Divisions ml	Height mm	Ø mm	PU	Cat. No.
500	blue	10	140	100	12	481942
500	yellow	10	140	100	12	481943
500	red	10	140	100	12	481944
500	green	10	140	100	12	481945
500	Set: blue, yellow, red, green (1 item each)	10	140	100	1	4811111
1000	blue	10	167	125	12	482942
1000	yellow	10	167	125	12	482943
1000	red	10	167	125	12	482944
1000	green	10	167	125	12	482945
1000	Set: blue, yellow, red, green (1 item each)	10	167	125	1	4821111



Graduated beakers, SAN

Crystal clear.
With molded graduations and stable, easy-grip handle.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
250	5	120	70	12	44091
500	10	133	91	12	44191
1000	10	170	116	6	44291
2000	20	215	150	6	44391
3000	50	242	170	6	44491

1



Collectors, PP or SAN

With molded graduations. Volume: 2000 ml.
With stable, easy-grip handle and white PC lid.
Diameter: 150 mm; height: 220 mm.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Description	Divisions ml	PU	Cat. No.
SAN, molded graduations (Picture 1)	20	6	97891
PP, molded graduations	20	6	978941
PP, molded, blue embossed graduations (Picture 2)	20	6	978081
Accessories for collectors			
Lid, PC		6	97791

2



Measuring & Transferring

Buckets, PE-HD



White. Without spout. With division into 1 liter segments.
Stable handle with reinforcement in the middle for comfortable carrying.
Tightly closing, transparent snap-on lid made of PE-LD - please order separately.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Description	Volume l	Divisions l	Height mm	Ø mm	PU	Cat. No.
Bucket	5	1	240	250	1	96093
Bucket	10	1	300	290	1	96393
Lid	for 5 L				1	96293
Lid	for 10 L				1	96593

Buckets with spout, PP



Transparent. With division into 1 liter segments.
With stable handle and spout for easy emptying.
Highly resistant to chemicals.
Without lid.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume l	Divisions l	Height mm	Ø mm	PU	Cat. No.
12	1	330	310	1	96694
15	1	370	310	1	96794



Measuring scoops, PP

White. Also suitable as weighing scoops. With precision formed filling edge and comfortable, stable handle. Easily readable volume quantities on the upper side of the handle.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Length mm	PU	Cat. No.
2	60	12	39194
5	82	12	39294
10	100	12	39394
25	135	12	39494
50	160	12	39594
100	200	12	39694
250	260	6	39794
500	315	6	39894
1000	385	6	39994



Measuring scoops, PP, coloured

Measuring scoops in different colours. Also suitable as weighing scoops. With precision formed filling edge and comfortable, stable handle. Easily readable volume quantities on the upper side of the handle.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Colour	PU	Cat. No.
50	red	12	395940
50	ultramarine	12	395950
100	red	12	396940
100	gray	12	396943
100	black	12	396944
100	yellow	12	396946
100	blue	12	396950
100	green	12	396952
100	bright blue	12	396955
100	ultramarine	12	396956
250	red	6	397940
250	ultramarine	6	397950
100	Set: white, red, grey, black, yellow, blue, green, bright blue, ultramarine (1 item each)	1	3961111

Scoops, PE-HD



Conical in shape with tapered filling edge.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Length mm	Colour	PU	Cat. No.
15	115	natural	12	40093
25	135	natural	12	40193
65	185	natural	12	40293
110	215	natural	12	40393
150	250	natural	12	40493
350	310	natural	6	40593
750	350	natural	6	40693
750	350	ultramarine	6	406950
750	350	black	6	406944
1250	400	natural	6	40793
1250	400	ultramarine	6	407950
1250	400	black	6	407944

Measuring & Transferring



Spatula, PA

Glass-fibre reinforced. Double spatula or spatula spoon, with stable, easy to hold handle in the middle.

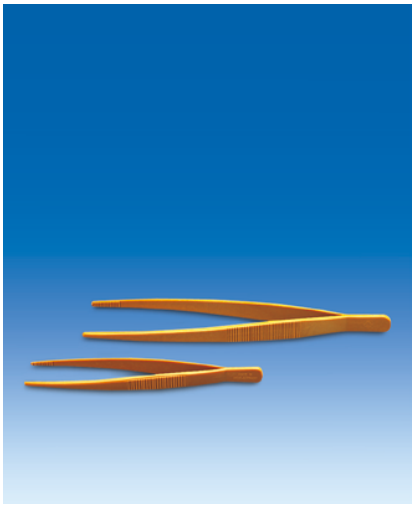
Description	Length mm	PU	Cat. No.
Double spatula	150	10	80594
Double spatula	180	10	80595
Spatula spoon	180	10	80596
Spatula spoon	210	10	80593



Stirring rod, PP

Spatula-shaped extension for effective manual stirring of small volumes.

Length mm	PU	Cat. No.
245	10	80828



Forceps, POM

Yellow, blunt, elastic, very good resilience. With grooves on the outside for optimum handling and grip.

Length mm	PU	Cat. No.
Forceps without grooves on the inside of the tip		
115	50	68099
145	50	68199
Forceps with grooves on the inside of the tip		
180	25	68299
250	25	68399



Forceps, PMP

121°C

White, pointed, elastic, very good resilience.

Length mm	PU	Cat. No.
115	10	67895
145	10	67995

Funnels, PP



Transparent. Rapid flow due to a steep 60° angle.
Practical handle with loop for hanging.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume approx. ml	Ø mm	Length mm	Inner stem Ø mm	Stem length mm	PU	Cat. No.
5	30	45	1.5	25	24	40894
6	30	47	4	25	24	41094
14	40	65	4	35	24	41194
32	50	85	7	43	24	41294
88	75	108	7.2	55	12	41394
222	100	155	8	77	12	41494
342	120	180	11	90	12	41594
817	150	220	15	95	12	41694

Powder funnels, PP



Transparent. With short, wide stem and practical tab for hanging. For transfer of powdered and granular substances. Rapid flow due to a steep 60° angle.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Ø mm	Length mm	Inner stem Ø mm	Stem length mm	PU	Cat. No.
65	70	15.5	26	10	70794
80	75	21	26	10	70894
100	92	24	23	10	70994
120	105	27.5	22	10	71094
150*	138	28	22	5	71194

* Without tab



Large funnels, PP

Transparent. Rapid flow due to a steep 60° angle. Practical handle for hanging. (Size 12500 ml without handle.) Suitable for filling large amounts of liquids. Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011. Optional accessories available: Stainless steel and aluminium sieve insert; however, not permissible for use with foodstuffs.

Volume approx. ml	Ø mm	Length mm	Inner stem Ø mm	PU	Cat. No.
1300	203	252	22	6	41794
3200	260	305	23	6	41894
12500	350	440	35	1	41994
Sieve insert Ø: 50 mm, for funnels no. 41794, 41894				1	42099



Large funnels, PE-HD

Transparent. Rapid flow due to a steep 60° angle. Practical handle for hanging. Suitable for filling large amounts of liquids.

Volume approx. ml	Ø mm	Length mm	Inner stem Ø mm	PU	Cat. No.
12500	400	365	42	1	42294
17500	430	420	37	1	42393



Standard joint funnels, PP

Transparent. For multi-neck flasks, laterally flattened, suitable for standard joint necks of various sizes. Suitable for the filling of liquid or powdered reagents into a reaction flask, especially for loading of multi-neck flasks during a reaction.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

NS	Length mm	Wide opening mm	Stem length mm	PU	Cat. No.
14/23	75	40	17	10	70494
19/26	95	50	23	10	70594
29/32	135	75	30	5	70694

Sample preparation

A careful sample preparation is essential for analysis

The basis of sample preparation for further analysis is often enrichment of the element of interest and separation from the sample matrix. Different techniques are used for separation and isolation of the relevant element(s) so that matrix effects do not influence the measurement. If only a very small amount of the relevant element is available, different techniques for enrichment (concentration) are applied. Common methods include drying, precipitation and evaporation, pyrolysis, extraction and digestion.

VITsafe



Wash-bottles



Wash-bottle caps



Dropping bottles



Dropping pipettes



Spray bottles



Beakers



Watch glasses



Erlenmeyer flasks



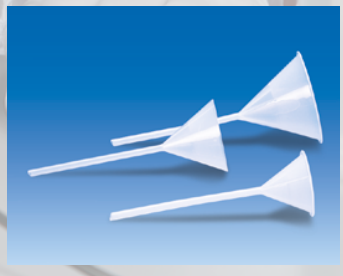
Magnetic stirring bars



Mortar & Pestles



Analytical funnels



Sample preparation

Accessories for funnels



Sedimentation cons



Evaporation dishes



Round-bottom flaks



Gas wash bottles



Desiccators



Sample containers



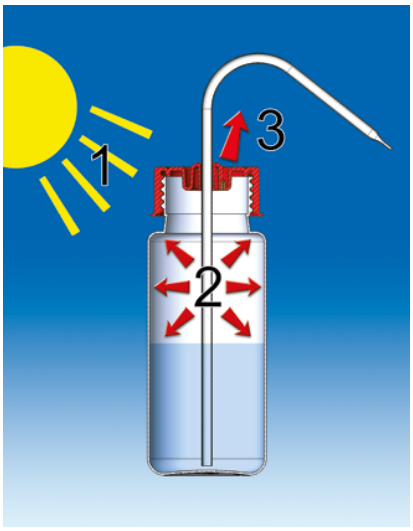
Reagent tube racks



VITsafe™ - the Safety Wash Bottle

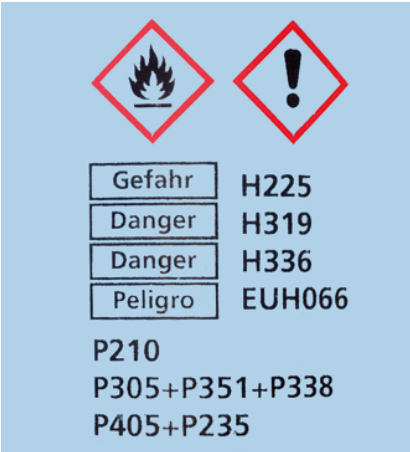
Working with chemical substances, which are sometimes dangerous, requires a high level of responsibility and concentration. With the VITsafe™ safety wash bottles VITLAB offers laboratory equipment that provides safety in the highest degree.

VENT-CAP virtually prevents leakage



Temperature changes **(1)** in a laboratory can often cause conventional wash bottles to leak or drip due to the resulting increase in internal pressure **(2)**. The patent-registered, metal-free VENT-CAP screw closure of the VITsafe™ safety wash bottle virtually prevents this. The expansion of the gas due to the rise in pressure can escape through an integrated capillary **(3)**, thus dissipating the static over pressure. In addition, the lack of a spray insert allows turbulences to be almost completely avoided. The smooth and finely drawn tip of the spray bottle allows a precise spray jet and optimizes the fluid backflow. Dripping is subsequently almost entirely prevented.

Clear identification due to safety imprint



The permanent imprint according to directive (EC) No. 1272/2008 **(GHS)** offers even more safety.

It contains all essential information:

- Substance name in German, English, French and Spanish
- Chemical formula and CAS number
- Hazard pictogram with signal word
- Hazard (H) and precautionary (P) statements
- as well as the U.S.-based NFPA diamond

The VITsafe™ safety wash bottles are available as narrow-mouth or wide-mouth type. The particularly large opening of the wide-mouth bottles allows filling even without a funnel. Select the safety wash bottles to fit your applications from among **17 different substance names** and three volumes (250/500/1000 ml).

Sample preparation

VITsafe™ safety wash bottles, narrow-mouth



Bottle made of PE-LD (or PP for acetone and MEK), PP spray tube.
More safety due to the durable safety imprint in accordance to Directive (EC) No. 1272/2008 (GHS), as well as with all important information:

- Material name in German, English, French and Spanish
- Chemical formula, CAS No., hazard pictogram, signal word
- Risk phrases (H phrases), safety phrases (P phrases), as well as NFPA Code

Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube. Practically no leakage or dripping with the VENT-CAP screw cap, the design of which prevents almost all static overpressure.

Imprint	Colour VENT-CAP	Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat. No.
Acetic acid	Red	500	25	180	74	6	1332979
Acetone	Red	250	25	135	65	12	1431829
Acetone	Red	500	25	180	74	12	1432829
Acetone	Red	1000	32	215	92	12	1433829
Acetonitrile	Red	500	25	180	74	6	1332969
Distilled Water	Blue	250	25	135	65	12	1331819
Distilled Water	Blue	500	25	180	74	12	1332819
Distilled Water	Red	1000	32	221	92	12	1333819
Ethanol	Orange	250	25	135	65	12	1331869
Ethanol	Orange	500	25	180	74	12	1332869
Ethanol	Red	1000	32	221	92	12	1333869
Ethyl acetate	Red	250	25	135	65	12	1331859
Ethyl acetate	Red	500	25	180	74	12	1332859
Ethyl acetate	Red	1000	32	221	92	12	1333859
Heptane	Red	500	25	180	74	6	1332899
i-Hexane	Red	500	25	180	74	6	1332909
Isopropanol	Yellow	250	25	135	65	12	1331849
Isopropanol	Yellow	500	25	180	74	12	1332849
Isopropanol	Red	1000	32	221	92	12	1333849
Methanol	Green	250	25	135	65	12	1331839
Methanol	Green	500	25	180	74	12	1332839
Methanol	Red	1000	32	221	92	12	1333839
Methyl ethyl ketone (MEK)	Red	500	25	180	74	6	1432989
Methylene chloride	Transparent	500	25	180	74	6	1332879
N,N-Dimethylformamide	Red	500	25	180	74	6	1332889
Pentane	Red	500	25	180	74	6	1433959
Tetrahydrofuran (THF)	Red	500	25	180	74	6	1332939
Toluene	Red	500	25	180	74	6	1332949
Xylene	Red	500	25	180	74	6	1332959

* Height without spray tube

Other variations available upon request.

Sample preparation



VITsafe™ safety wash bottles, wide-mouth

Bottle made of PE-LD (or PP for acetone and MEK), PP spray tube.
More safety due to the durable safety imprint in accordance to Directive (EC) No. 1272/2008 (GHS), as well as with all important information:

- Material name in German, English, French and Spanish
- chemical formula, CAS No., hazard pictogram, signal word
- Risk phrases (H phrases), safety phrases (P phrases), as well as NFPA Code

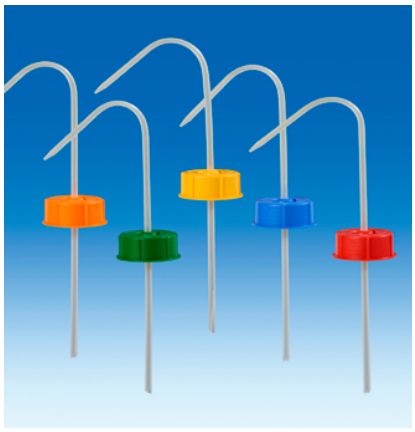
Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube. Practically no leakage or dripping with the VENT-CAP screw cap, the design of which prevents almost all static overpressure.

Imprint	Colour VENT-CAP	Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat. No.
Acetic acid	Red	500	45	166	76	6	1352979
Acetone	Red	250	45	146	58	12	1451829
Acetone	Red	500	45	166	76	12	1452829
Acetone	Red	1000	63	226	91	12	1453829
Acetonitrile	Red	500	45	166	76	6	1352969
Distilled Water	Blue	250	45	146	58	12	1351819
Distilled Water	Blue	500	45	166	76	12	1352819
Distilled Water	Red	1000	63	226	91	12	1353819
Ethanol	Orange	250	45	146	58	12	1351869
Ethanol	Orange	500	45	166	76	12	1352869
Ethanol	Red	1000	63	226	91	12	1353869
Ethyl acetate	Red	250	45	146	58	12	1351859
Ethyl acetate	Red	500	45	166	76	12	1352859
Ethyl acetate	Red	1000	63	226	91	12	1353859
Heptane	Red	500	45	166	76	6	1352899
i-Hexane	Red	500	45	166	76	6	1352909
Isopropanol	Yellow	250	45	146	58	12	1351849
Isopropanol	Yellow	500	45	166	76	12	1352849
Isopropanol	Red	1000	63	226	91	12	1353849
Methanol	Green	250	45	146	58	12	1351839
Methanol	Green	500	45	166	76	12	1352839
Methanol	Red	1000	63	226	91	12	1353839
Methyl ethyl ketone (MEK)	Red	500	45	166	76	6	1452989
Methylene chloride	Transparent	500	45	166	76	6	1352879
N,N-Dimethylformamide	Red	500	45	166	76	6	1352889
Pentane	Red	500	45	166	76	6	1453959
Tetrahydrofuran (THF)	Red	500	45	166	76	6	1352939
Toluene	Red	500	45	166	76	6	1352949
Xylene	Red	500	45	166	76	6	1352959

* Height without spray tube

Other variations available upon request.

VENT-CAP wash bottle caps, PP



Screw cap and spray tube from PP.
Practically no leakage or dripping with the VENT-CAP screw cap,
the design of which prevents almost all static overpressure.
Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube.

For bottle size ml	Thread GL	Colour	PU	Cat. No.
250	25	Red	12	834111
250	25	Blue	12	834121
250	25	Green	12	834131
250	25	Orange	12	834141
250	25	Yellow	12	834151
250	45	Red	12	834311
250	45	Blue	12	834321
250	45	Green	12	834331
250	45	Orange	12	834341
250	45	Yellow	12	834351
500	25	Transparent	12	834102
500	25	Red	12	834112
500	25	Blue	12	834122
500	25	Green	12	834132
500	25	Orange	12	834142
500	25	Yellow	12	834152
500	45	Transparent	12	834302
500	45	Red	12	834312
500	45	Blue	12	834322
500	45	Green	12	834332
500	45	Orange	12	834342
500	45	Yellow	12	834352
1000	32	Red	12	834213
1000	63	Red	12	834413

Sample preparation



Wash bottles with imprint, PE-LD/PP

Narrow- / wide-mouth bottles made of PE-LD, transparent.
Screw cap and spray tube from PP.
Imprinted with "Distilled Water" in German, English, French and Spanish.
Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube.

Upon request, also with other imprints for non-hazardous media according to the REACh Directive.

Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat. No.
250	25	135	65	12	133181
250	45	146	58	12	135181
500	25	180	74	12	133281
500	45	166	76	12	135281
1000	32	221	92	12	133381
1000	63	226	91	12	135381

* Height without spray tube



Wash-bottles, PP

Narrow- / wide-mouth bottles made of PP, transparent. Screw cap and spray tube from PP.
Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube.

Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat. No.
250	25	135	65	12	94993
250	45	146	58	12	93793
500	25	180	74	12	95093
500	45	166	76	12	93993
1000	32	215	92	12	95193
1000	63	226	91	12	94193

* Height without spray tube

Sample preparation

Wash-bottles, PE-LD/PP



Narrow- / wide-mouth bottles made of PE-LD, transparent. Screw cap and spray tube from PP.
Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube.

Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat. No.
50	18	85	37	24	94588
100	18	114	43	24	94688
250	25	135	65	12	94988
250	45	146	58	12	93788
500	25	180	74	12	95088
500	45	166	76	12	93988
1000	32	221	92	12	95188
1000	63	226	91	12	94188

* Height without spray tube

Wash-bottles, coloured, PE-LD/PP



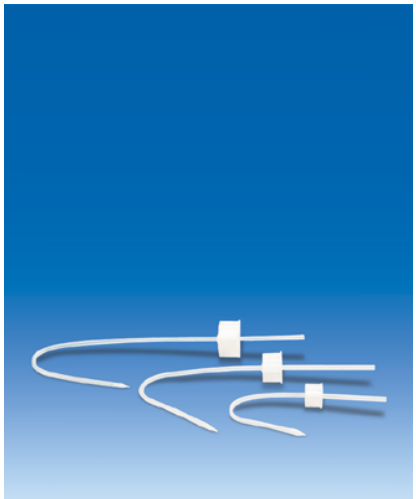
Narrow-mouth bottles, made from PE-LD. Available in four different colours to facilitate ready identification. Screw cap and spray tube from PP.
Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube.

Colour	Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat. No.
red	250	25	135	65	5	132603
red	500	25	180	74	5	132703
red	1000	32	221	92	5	132803
green	250	25	135	65	5	132605
green	500	25	180	74	5	132705
green	1000	32	221	92	5	132805
yellow	250	25	135	65	5	132606
yellow	500	25	180	74	5	132706
yellow	1000	32	221	92	5	132806
blue	250	25	135	65	5	132608
blue	500	25	180	74	5	132708
blue	1000	32	221	92	5	132808
Set: red, green, yellow, blue (1 item each)	500	25	180	74	1	1327111
Set: red, green, yellow, blue (1 item each)	1000	32	221	92	1	1328111

* Height without spray tube







Wash-bottles for individual labeling, with VENT-CAP, PE-LD/PP

Narrow- and wide-mouth bottles made from PE-LD, transparent. VENT-CAP screw cap and spray tube made from PP.

Practically no leakage or dripping of the liquid due to the VENT-CAP screw cap, that prevents almost all build-up of static overpressure. The spray tube enables a precise spray jet and optimised medium backflow.

Volume ml	Thread GL	Height* mm	Ø mm	PU	Cat.No.
500	25	180	74	6	133211
500	45	166	76	6	135211

*Height without spray tube

Wash bottle caps, PP

Screw cap and spray tube with drawn-out tip, made of PP. With precise spray jet and optimised medium backflow.
Please note the different lengths of the spray tubes (short - medium - long):
Cat. No. 833001 – short
Cat. No. 833101 – short
Cat. No. 833102 – medium
Cat. No. 833203 – long
Cat. No. 833301 – short
Cat. No. 833302 – medium
Cat. No. 833403 – long

Thread GL	PU	Cat.No.
18	24	833001
25	12	833101
25	12	833102
32	12	833203
45	12	833301
45	12	833302
63	12	833403

Sample preparation

Dropping bottles, PE-LD/PE-HD



Narrow-mouth bottles made of PE-LD, transparent, with dropper insert and screw cap made from PE-HD.
Extra long, fine dropping tip for accurate dispensing.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
50	18	129	37	24	94587
100	18	155	43	24	94687
250	25	183	65	12	94987
500	25	228	74	12	95087
1000	32	269	92	12	95187

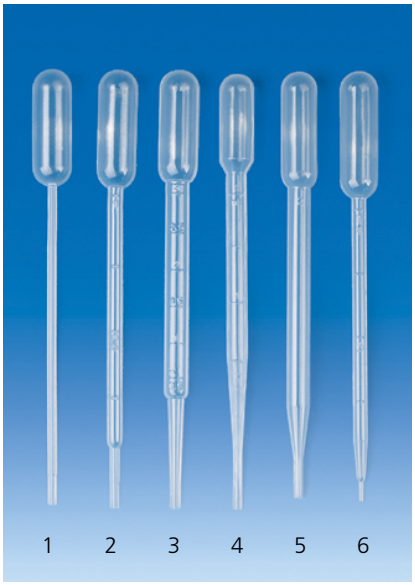
Caps with dropper inserts, PE-HD



For bottles with GL threads. Cap with dropper insert, complete with screw cap made from PE-HD.
Extra long, fine dropping tip for accurate dispensing.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Thread GL	PU	Cat. No.
18	24	83306
25	12	83307
32	12	83308

Sample preparation



Pasteur pipettes, PE-LD

Disposable. Very good reproducibility of the number of drops per milliliter, thus ideal for distributing aliquots of liquid portions. Pasteur pipettes can be deep-frozen when filled, or if needed, be converted into sealed vessels through heat-sealing. The integrated suction bulb can readily be compressed. Thus, finger fatigue from frequent pipetting is avoided. Can be sterilised with gas or gamma radiation.

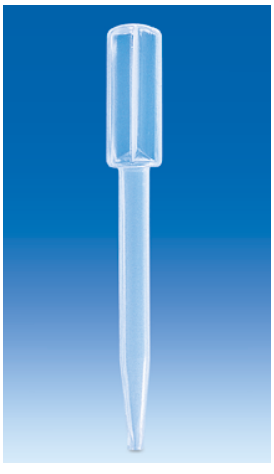
Figure No.	Nominal volume ml	Withdraw volume with ball ml	Graduated to ml	Outer Ø tip mm	Length mm	Number of drops per ml	PU	Cat. No.
1		4.4	without	23	148	27-29	5000	148893
2	1	5	1.0	26	150	23-25	5000	148993
3	3	7	3.0	33	150	19-21	5000	149093
4	2	5.9	2	27	153	25	5000	149193
5	4	7	without	32	147	25	5000	149293
6	1	5.5	0.25	12	150	70	5000	149393



Dropping pipettes, PE-LD

With integrated bellows.
For sampling and decanting of infectious or toxic liquids.
Graduated.

Volume ml	Length mm	PU	Cat. No.
1.5	134	100	149893
5	195	100	149993



Dropping pipettes, PE-LD

With integrated pipetting bulb.
For sampling and decanting of infectious or toxic liquids.
Without graduations.

Volume ml	Length mm	PU	Cat. No.
1.8	98	250	149693

Sample preparation

Spray bottles

White or transparent bottles made from PP and PE-LD.
Sprayer insert with stable, smoothly operated pump trigger and adjustable spray nozzle, which can be regulated from the finest mist (nebulising) to a precise liquid jet.
Range: approx. 3-4 meters.

For spraying detergents or disinfectants, especially into difficultly accessible areas, as well as applications in thin layer chromatography.

Volume ml	Colour	Material	PU	Cat. No.
400	white	PP	5	53510
850	white	PP	5	53610
1000	transparent	PP	5	95286
1000	transparent with imprint „Ethanol“*	PE-LD	5	952861

* More information on imprint on page 64









Griffin beakers, PFA

Transparent. With molded graduations. Excellent chemical resistance and very high thermal stability from -200 to +260 °C.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.

The advantages of PFA:

- Especially suitable for use in trace analysis
- Ideal for sensitive and valuable samples
- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no contamination due to the extremely hydrophobic, anti-adhesive and smooth surfaces
- High thermal stability, from -200 °C to +260 °C
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean
- Use of high purity raw materials

Further information on PFA can be found starting on page 122.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
25	5	50	32	1	110205
50	10	59	39	1	110305
100	20	72	50	1	110405
250	50	96	67	1	110605
500	100	122	88	1	110905
1000	100	141	109	1	111005

Sample preparation



Griffin beakers, PMP, printed red graduations

Crystal clear. With easily readable, printed red graduations.
According to ISO 7056.
To preserve markings, cleaning at no higher than 60 °C is recommended.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
10*	2	36	30	12	60503
25	5	50	38	12	60603
50	10	60	47	12	60703
100	10	70	55	12	60803
150*	20	80	66	12	60903
250	25	95	77	6	61003
400*	50	112	87	6	61103
500	50	118	94	6	61803
600*	50	127	100	6	61203
1000	100	147	120	6	61403
2000	200	187	149	6	61503
3000	250	212	170	4	61603
5000	500	247	203	4	61703

* Variant in addition to ISO 7056



Griffin beakers, PMP, molded graduations

121°C

Crystal clear. With molded graduations.
According to ISO 7056.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
25	5	50	38	12	60695
50	10	60	47	12	60795
100	10	70	55	12	60895
150*	20	80	66	12	60995
250	25	95	77	6	61095
400*	50	112	87	6	61195
500	50	118	94	6	61895
600*	50	127	100	6	61295
1000	100	147	120	6	61495
2000	200	187	149	6	61595
3000	250	212	170	4	61695
5000	500	247	203	4	61795

* Variant in addition to ISO 7056

Sample preparation

Griffin beakers, PP, molded blue graduations



Highly transparent. With easily readable molded, embossed blue graduations.
According to ISO 7056.
To preserve markings, do not clean at temperatures exceeding 60 °C.
Conditionally autoclavable at 121 °C (2 bar) according to DIN EN 285. For autoclaving we recommend the design with molded graduations (Cat. No. 606941 – 617941).
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
10*	2	36	30	12	605081**
25	5	50	38	12	606081**
50	10	60	47	12	607081**
100	10	70	55	12	608081
150*	20	80	66	12	609081
250	25	95	77	6	610081
400*	50	112	87	6	611081
500	50	118	94	6	618081
600*	50	127	100	6	612081
1000	100	147	120	6	614081
2000	200	187	149	6	615081
3000	250	212	170	4	616081
5000	500	247	203	4	617081

* Variant in addition to ISO 7056

** Blue printed graduations, not molded

Griffin beakers, PP, molded graduations



Highly transparent. With molded graduations.
According to ISO 7056.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
25	5	50	38	12	606941
50	10	60	47	12	607941
100	10	70	55	12	608941
150*	20	80	66	12	609941
250	25	95	77	6	610941
400*	50	112	87	6	611941
500	50	118	94	6	618941
600*	50	127	100	6	612941
1000	100	147	120	6	614941
2000	200	187	149	6	615941
3000	250	212	170	4	616941
5000	500	247	203	4	617941

* Variant in addition to ISO 7056

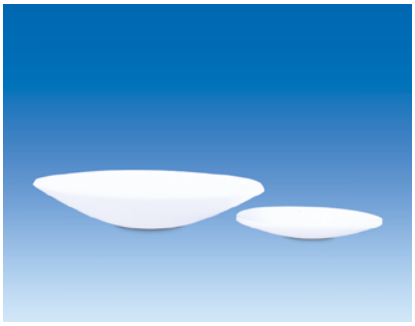
Sample preparation



Measuring cup, PP

Transparent. Very durable. With molded graduations. Can be used as dispensing or lab beaker.
Not a medical device.
Fitting lid made of PE - please order separately.

Description	Volume ml	Divisions ml	Height mm	Ø mm	PU	Cat. No.
Measuring cup	30	1	42	37	100	69394
Snap-on lid, white, PE					100	69493

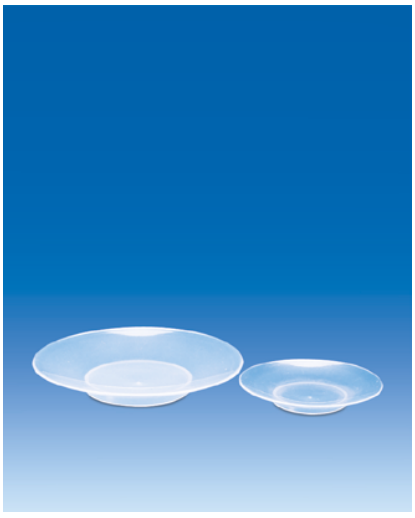


Watch glasses, PTFE

121°C

White. Without base.
High thermal stability and chemical resistance.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.
Ideal for use to cover beakers.

Ø mm	PU	Cat. No.
50	1	113197
75	1	113297
100	1	113397
125	1	113497



Watch glasses, PP

121°C

Transparent. With base.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.
Ideal for use to cover beakers.

Ø mm	PU	Cat. No.
60	10	80452
80	10	80454
100	10	80455
118.5	10	80456

Sample preparation

Erlenmeyer flasks, GL 45, PMP with PP screw cap



Transparent.
Ideal for use as a receiving vessel in titrations.
Well suited for storage and cultivation of cell cultures. Far safer than glass flasks for use in incubator shakers due to the break resistance of plastic. Suitable for microwaves.
To preserve markings, cleaning at no higher than 60 °C is recommended.

Volume ml	Divisions ml	PU	Cat. No.
75	10	6	56695
125	20	6	56795
250	50	6	56895
500	100	6	56995
1000	200	4	57095

Erlenmeyer flasks, GL 45, PP with PP screw cap



Transparent.
Well suited for storage and cultivation of cell cultures. Far safer than glass flasks for use in incubator shakers due to the break resistance of plastic. Suitable for microwaves.
To preserve markings, cleaning at no higher than 60 °C is recommended.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

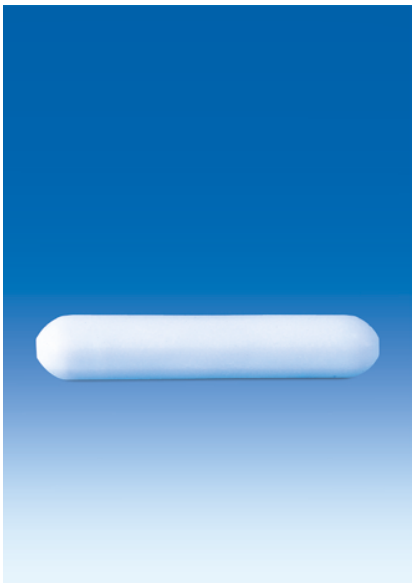
Volume ml	Divisions ml	PU	Cat. No.
75	10	6	566941
125	20	6	567941
250	50	6	568941
500	100	6	569941
1000	200	4	570941

Screw caps, GL 45, PP



Screw caps suitable for Erlenmeyer flasks and VITgrip™ lab bottles.

Colour	PU	Cat. No.
red	6	83340
blue	6	83350



Magnetic stirring bars, polygonal, PTFE

121°C

With permanent magnet AlNiCo V core. The angled shape gives rise to significant turbulence, and thus achieves effective mixing, even at low spin rates.

Ø mm	Length mm	PU	Cat. No.
2	5	10	300497
2	7	10	300597
3	8	10	300897
3	10	10	301097
3	13	10	301197
4.5	12	10	301597
6	10	10	301697
6	15	10	301797
6	25	10	301997
6	30	10	302097
7	20	10	301897
7	50	10	302297
7	60	10	302397
8	40	10	302197
10	70	10	302497
10	80	10	302597
27	57	10	303097
27	108	10	303197
27	159	10	303297

Sample preparation

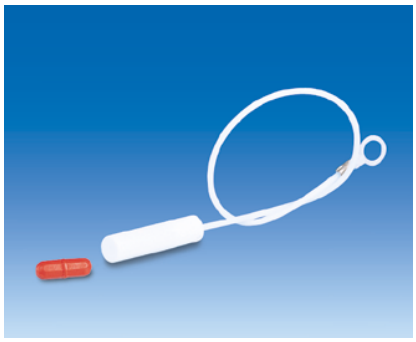
Magnetic stirring bars, octagonal, PTFE

121°C



With rings and permanent magnet AlNiCo V core. The eight-sided shape gives rise to significant turbulence, and thus achieves effective mixing, even at low spin rates.
The middle ring also promotes stable centering with convex or uneven bottoms.

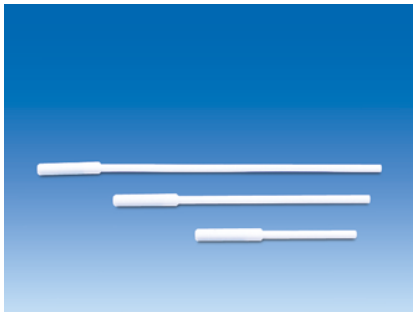
Ø mm	Length mm	PU	Cat. No.
8	13	10	307697
8	15	10	307797
8	22	10	307897
8	25	10	307997
8	28	10	308097
8	38	10	308197
8	41	10	308297
8	51	10	308397
8	64	10	308497
10	13	10	308597
10	25	10	308897
10	35	10	308997
10	38	10	309097
10	51	10	309297
10	64	10	309397



Magnetic stirring bar retrievers, flexible, PTFE

Flexible magnetic stir bar retriever with a total length of 330 mm. Magnet encapsulated. Ø x L: 12.5 x 51 mm. Due to the high flexibility, the magnet stir bar can be retrieved from inaccessible locations, e.g., from the water trap in a laboratory sink.
High chemical resistance, simple to clean.

Length mm	PU	Cat. No.
330	1	318597



Magnetic stirring bar retrievers, PTFE

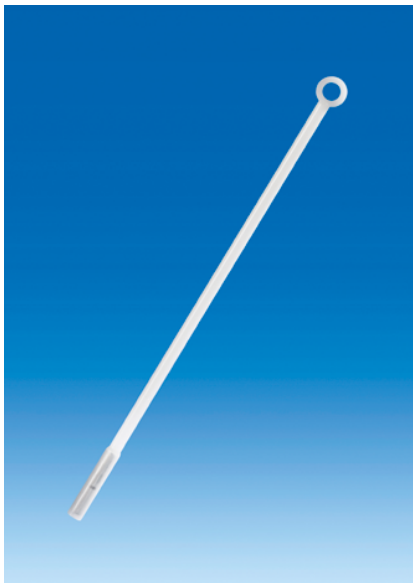
With PTFE encapsulated magnetic core. Straight shape. High chemical resistance, simple to clean.

Length mm	PU	Cat. No.
150	1	122097
250	1	122197
350	1	122297

Sample preparation

Magnetic stirring bar retrievers, PE

With a permanent magnet on one end and holding ring on the other one.
Magnet is completely encapsulated in a PE mantle.



Length mm	PU	Cat. No.
300	1	318293
450	1	318393

Mortars, MF

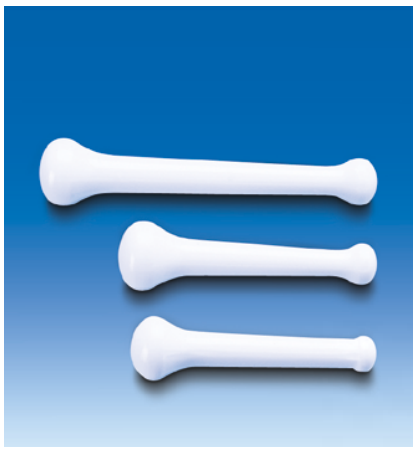
White, with spout. Stable circumferential edge. Very stable.



Volume ml	Height mm	Ø mm	PU	Cat. No.
300	75	125	5	72898
500	90	150	5	72998

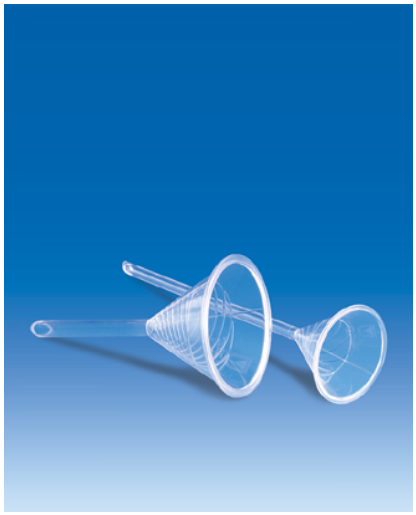
Pestles, MF

White, heavy design. with ergonomically shaped grip.



Length mm	Head Ø mm	PU	Cat. No.
125	30	5	73498
145	35	5	73598
160	40	5	73698
215	42	1	73898

Sample preparation



Urbanti funnels, PMP

Crystal clear. The spiral-shaped ribs increase the rate of filtration and prevent the trapping of air between the filter paper and the funnel. With long stem.

Volume approx. ml	Ø mm	Length mm	Stem Ø mm	Stem length mm	PU	Cat. No.
30	51	195	3	150	6	325095
80	70	210	3	150	6	325195
250	100	198	7	108	4	325295
630	140	247	10	132	3	325395
1800	196	315	20	155	2	325495



Analytical funnels, PP

Transparent. With long stem and grooves. Rigidified by a thickened edge.
Rapid flow due to a steep 60° angle.

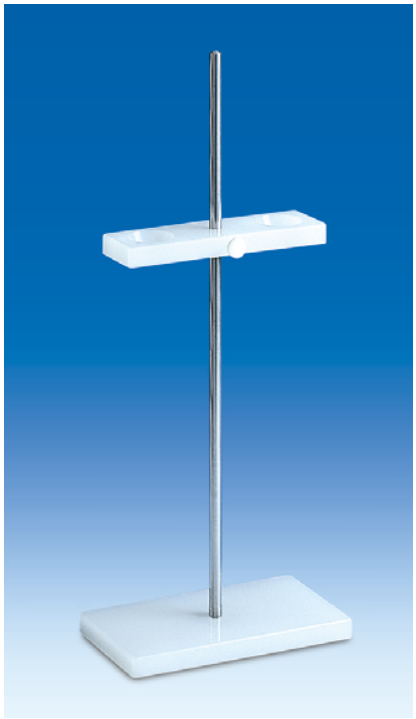
Volume approx. ml	Ø mm	Length mm	Stem Ø mm	Stem length mm	PU	Cat. No.
50	50	194	5	150	10	80162
100	72	208	5	143	10	80164
225	91	227	5	145	10	80165



Büchner funnels, PP

Two parts. Upper and lower parts are detachable to facilitate cleaning.

Volume approx. ml	Filter Ø mm	Length mm	Hole Ø mm	PU	Cat. No.
40	42.5	95	1.2	1	80437
70	55	113	1.1	1	80438
180	70	145	2.0	1	80439
280	80	165	2.0	1	80440
390	90	180	2.5	1	80441
810	110	210	2.5	1	80442
2100	160	280	2.75	1	80443
6000	240	350	3.0	1	80445



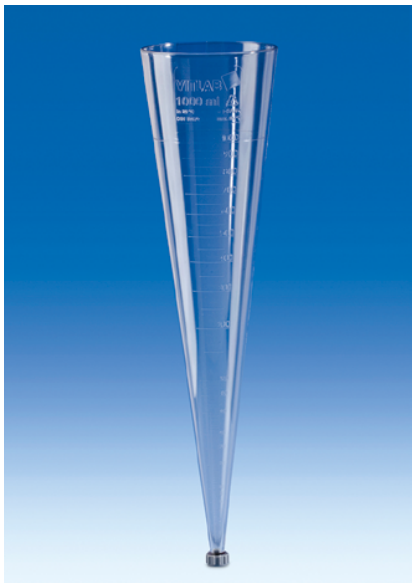
Filtering racks

Funnel holder with base and adjustable height, made from PP, support stand made from aluminium, diameter: 12.7 mm; and, length: 595 mm. To hold from two to four funnels with an upper outer diameter of 50-120 mm.

Positions	Base plate mm	PU	Cat. No.
2	250 x 140	1	78394
4	450 x 140	1	78294

Sample preparation

Imhoff Sedimentation Cone, SAN



According to DIN 12 672. Crystal clear, with molded graduations for precise reading of volumes.
For simple, basic cleaning and rinsing, the screw coupling on the tip can be removed.
Lower breakage risk than for PC or glass containers.
For determination of suspended matter in liquids (e.g., for industrial and municipal wastewater).

Graduation:	Divisions:	Error limits:
0 - 2 ml	0.1 ml	+/- 0.1 ml
2 - 10 ml	0.5 ml	+/- 0.5 ml
10 - 40 ml	1 ml	+/- 1 ml
40 - 100 ml	2 ml	+/- 2 ml
100 - 1000 ml	50 ml	+/- 10 ml

Volume ml	PU	Cat. No.
1000	3	75991

Sedimentation rack, PMMA



For 2 Imhoff Sedimentation Cones. Base plate with depression for exact vertical positioning of the sedimentation cone.

L x W x H mm	PU	Cat. No.
150 x 300 x 290	1	81056

Evaporating dishes, PFA



With snap-on lid, PE. For contamination free sample preparation and efficient transportation. Due to a conical depression in the middle of the base very small amounts of a solvent are adequate to absorb the evaporated samples.

Volume ml	Height mm	Ø mm	PU	Cat. No.
25	25	50	1	103297
50	54	50	1	103397



Round-bottom flasks, PFA

Transparent, neck with NS 29/32. Suitable as safety flask for use with rotary evaporators (operation at room temperature) to collect the distilled off liquid.
High thermal stability and chemical resistance.

The advantages of PFA:

- Especially suitable for use in trace analysis
- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no cross-contamination due to the extremely hydrophobic, anti-adhesive and smooth surfaces
- High thermal stability, from -200 °C to +260 °C, autoclavable.
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean
- Use of high purity raw materials

Further information on PFA can be found starting on page 122.

Volume ml	Height mm	Ø mm	PU	Cat. No.
100	117	65	1	107797
250	147	88	1	107897
500	177	107	1	107997



Round-bottom flask stand, PP

White, for flasks with a round bottom. Excellent chemical resistance. Autoclavable at 121 °C (2 bar) according to DIN EN 285.

Ø mm	PU	Cat. No.
160	5	80271

Sample preparation

Gas wash bottles, PFA



Cap with S 40 buttress threads, and screwable frit made of PTFE. A pore size of approx. 3 µm for optimal optimal pearling of the gas into the liquid. A wide field of application is possible due to the use of high-quality fluoroplastic. Suitable only for non-pressurised operation.

The advantages of PFA:

- Especially suitable for use in trace analysis
- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no cross-contamination due to the extremely hydrophobic, anti-adhesive and smooth surfaces
- High thermal stability, from -200 °C to +260 °C, autoclavable
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean
- Use of high purity raw materials

Further information on PFA can be found starting on page 122.

Volume ml	Height mm	Ø mm	Hose connection inner / outer Ø mm	PU	Cat. No.
250	160	61	4 / 6	1	159497
500	190	76	4 / 6	1	159597
1000	240	96	5 / 8	1	159697

Desiccators with stopcock, PC



Crystal clear, with stopcock for evacuation. Lower sections can be filled with desiccants. The materials to be dried are placed on a perforated disc made of PP.
Lid is sealed by a neoprene gasket. Ideal for use in educational laboratories.

Ø mm	Disc Ø mm	Height mm	PU	Cat. No.
171	140	206	1	326496
230	190	260	1	326596
273	230	311	1	326696



Desiccators, PP/PC

Lower portion made from PP can be filled with desiccants. The materials to be dried are placed on a perforated disc made of PP. The lid made from PC is sealed with a neoprene gasket. Ideal for use in educational laboratories.

Ø mm	Disc Ø mm	Height mm	PU	Cat. No.
171	140	206	1	326094
230	190	260	1	326194
273	230	311	1	326294



Sample containers, PFA

With screw cap made of PFA. Cylindrical, tall shape.
Ideal for sample collection, transport and storage of samples.

The advantages of PFA:

- Especially suitable for use in trace analysis
- Ideal for sensitive and valuable samples
- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no cross-contamination due to the extremely hydrophobic, anti-adhesive, smooth surfaces
- High thermal stability from -200 °C to +260 °C, autoclavable at 121 °C (2 bar) according to DIN EN 285
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean
- Use of high purity raw material

Further information on PFA can be found starting on page 122.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
30	40	54	38	1	130297
60	40	90	38	1	130397
90	56	62	54	1	130497
180	56	112	54	1	130597

Sample preparation

Sample containers, PP



Transparent. With screw cap made of PP. Cylindrical, tall shape.
Ideal for sample collection, transport and storage of samples.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
30	40	54	38	10	130294
60	40	90	38	10	130394
90	56	62	54	10	130494
180	56	112	54	10	130594

Sample containers, PP



Transparent. With snap-on lid made of PE-LD. Conical shape.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Height mm	Ø mm	PU	Cat. No.
5	25	20	25	68594
18	57	22	25	68894
50	97	30	10	69194
160	110	50	10	69294

Sample containers, PE-LD



Transparent. With attached plug-seal cap made of PE-LD.

Volume ml	Height mm	Ø mm	PU	Cat. No.
1	32	8	500	80730
2.5	32	14	100	80731
5	50	15	100	80737
8	57	17	100	80732
7	32	23	100	80733
20	74	25	100	80734
25	52	31	50	80736
35	74	31	50	80735



Weighing jars, PP

Transparent. With knobbed lid. Cylindrical shape.

Volume ml	Height mm	Ø mm	PU	Cat. No.
20	30	40	10	80342
23	50	30	10	80340
30	30	50	10	80345
50	35	60	10	80346
60	69	40	10	80343
190	90	60	10	80347
360	120	70	10	80348



Sample tubes, PFA

Sample tubes made from PFA for sample preparation and for use in autosampler racks. With or without individually calibrated ring mark at 10 ml with GL 25 screw cap made from PFA or PE stopper (see Table).

The advantages of PFA:

- Especially suitable for use in trace analysis
- No memory effects
- Practically no carryover due to the extremely hydrophobic, anti-adhesive, smooth surfaces
- High thermal stability, from -200 °C to +260 °C, autoclavable
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean

Further information on PFA can be found starting on page 122.

Figure No.	Type	Volume ml	Height mm	Ø mm	PU	Cat. No.
1	With ring mark and screw cap	15	110	22	1	103897
-	Without ring mark	15	110	22	1	1038971
2	With ring mark and stopper	12	110	16	1	1037979
3	Without ring mark	12	110	16	1	103797

Sample preparation

Sample vials, PFA



Sample vials made of PFA with conical interior and molded graduation (5 ml subdivisions).
Available in two different types, depending on application:

- Cored outside bottom
- Flat surface on bottom of vial for improved heat transfer (Recommended for use with hot plates)

Both 50 ml sizes fit in common Autosampler racks.
Scope of delivery is without screw cap. Please order the screw cap (Cat. No. 104997) separately.

Volume ml	Type outside bottom	Ø mm	Height* mm	PU	Cat. No.
15	Flat	29	39	1	104197
15	Cored	29	42	1	104097
25	Flat	29	69	1	104397
25	Cored	29	72	1	104297
50	Flat	29	117	1	104597
50	Cored	29	120	1	104497
Screw cap, 33 mm, PFA (suitable for sample vials (104097 – 104597)				1	104997

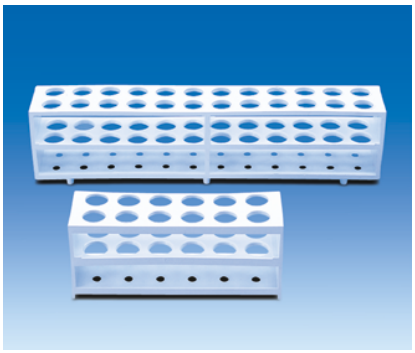
* Height with thread

Autosampler-vials, PFA



Molded graduation with 1 ml subdivisions.
Translucent material for optimum visibility of the liquid contained in the vial.
Conical interior for use with autosamplers. The outer design allows easy handling of the autosampler-vials with forceps.Optionally available with plug-seal cap for long term storage or lid with knob for fast opening and closing (dust protection) of the vial.
Scope of delivery is without lid or cap. Please order the fitting lid (Cat. No. 105597 resp. 105697) separately.

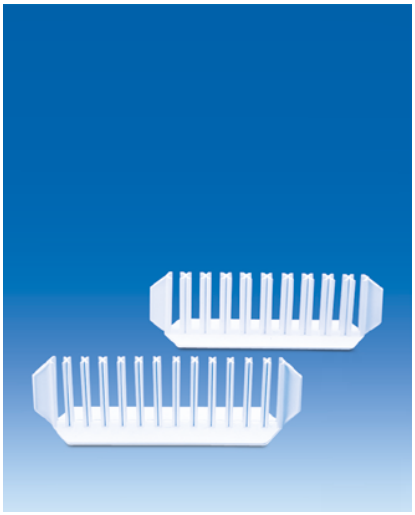
Volume ml	Ø mm	Height mm	PU	Cat. No.
1.5	13.5	24	1	105097
2.5	13.5	36	1	105197
4	14	52	1	105297
Plug-seal cap, PFA	18	5	1	105697
Lid with knob, PFA	16	9	1	105597



Reagent tube racks, PP

White. For reagent tubes with a diameter of 20 mm.
With three levels for precise, vertical positioning of the reagent tubes.
Working temperatures of -20 to +90 °C.

For Ø up to mm	Positions	L x W x H mm	PU	Cat. No.
20	2 x 6	190 x 60 x 80	5	80560
20	2 x 12	375 x 65 x 95	5	80562



Reagent tube racks, PP

White. The special shape makes it possible to check the amounts present in the reagent tubes.
With two side-mounted handle straps.

For Ø up to mm	Positions	L x W x H mm	PU	Cat. No.
16	10	220 x 55 x 65	4	80130
18	9	220 x 55 x 65	4	80131
Base plate for 2 reagent tube racks (Cat. No. 80130, 80131)		202 x 156 x 13.5	4	80134

Sample preparation

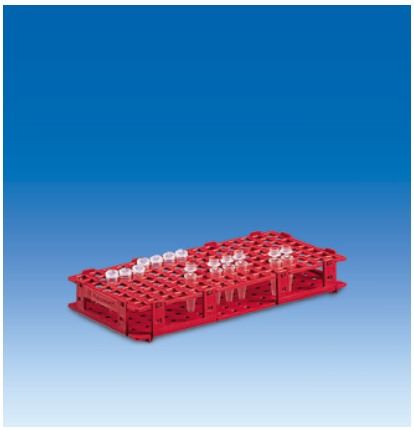
Test tube racks, PP, coloured



Stackable, simple, and small footprint. Alphanumerically identified positions. Suitable for tempering in a water bath as well as storage of samples in the refrigerator and incubation in a climate chamber. The racks are supplied as folded out flat, and can be firmly and inseparably joined together in just a few steps. Working temperatures of -20 to +90 °C. Base area: 265 x 126 mm.

For Ø up to mm	Positions	Height mm	Colour	PU	Cat. No.
13	6 x 14	75	White	5	3190940
16	5 x 11	75	White	5	3191940
18	5 x 11	75	White	5	3192940
20	4 x 10	75	White	5	3193940
25	4 x 8	88	White	5	3194940
30	3 x 7	88	White	5	3195940
13	6 x 14	75	Blue	5	3190948
16	5 x 11	75	Blue	5	3191948
18	5 x 11	75	Blue	5	3192948
20	4 x 10	75	Blue	5	3193948
25	4 x 8	88	Blue	5	3194948
30	3 x 7	88	Blue	5	3195948
13	6 x 14	75	Red	5	3190943
16	5 x 11	75	Red	5	3191943
18	5 x 11	75	Red	5	3192943
20	4 x 10	75	Red	5	3193943
25	4 x 8	88	Red	5	3194943
30	3 x 7	88	Red	5	3195943

Microtube racks, PP, coloured



Stackable racks for micro- or cryotubes. Alphanumerically identified positions. Suitable for tempering in a water bath. The racks are supplied as folded out flat, and can be firmly and inseparably joined together in just a few steps. Working temperatures of -20 to +90 °C. Base area: 265 x 126 mm.

For Ø up to mm	Positions	Colour	Height mm	PU	Cat. No.
11	8 x 16	White	38	5	3197940
13	6 x 14	White	38	5	3198940
11	8 x 16	Blue	38	5	3197948
13	6 x 14	Blue	38	5	3198948
11	8 x 16	Red	38	5	3197943
13	6 x 14	Red	38	5	3198943

Saving & Storing

Saving and storing with confidence

Aids for various laboratory uses – in the extensive product range from VITLAB, you will always find the suitable vessel

VITLAB provides a wide variety of different vials and containers for safe and efficient transportation of samples and sample materials, as well as for saving and storing, for which only selected high-performance plastics are used. Whether flask, vial or container – you can rely on our high-quality products!

Lab bottles



Reagent bottles



Caps



Storage bottles



Transport containers



Trays & Bowls



VITgrip™ – The Allround Lab Bottle

The VITgrip™ lab bottles and screw caps of high-quality polypropylene (PP) are "Made in Germany". VITgrip™ lab bottles are in many aspects a safe alternative to glass, as for example, the higher break resistance reduces the risk of injury and together with outstanding chemical resistance provides a long period of use.

Leakproof* and break resistant



Sometimes it happens very quickly: one inattentive moment and, by accident, the lab bottle is knocked over. Breakage of glass can be dangerous because of possible injury due to glass splinters and/or spilled liquid. VITgrip™ lab bottles made of plastic provide a higher level of safety in the lab because the VITgrip™ has a significantly higher break resistance and is leakproof*. The bottle thread and the associated screw cap are an ideally matched pair. Together, they form a reliable sealing system without the need of an additional seal that can wear, corrode or cause contamination. Both components are subject to a detailed quality inspection prior to delivery.

Safe storage



The VITgrip™ lab bottles are supplied with a tamper-evident closure; i. e. a ring, which is attached at the lower end of the screw cap will tear off upon the first opening of the closed bottle. It reliably signals, if the bottle is still sealed before opening. Thus, an intact tamper-evident closure can ensure safe storage of e. g. reference samples or safe transfer of samples between sampling site and lab. After the ring is torn off, the closure can be used as a regular screw cap. All VITgrip™ lab bottles have a GL 45 thread and an evenly formed neck area that allow controlled, smooth pouring of liquid.

VITgrip™ lab bottles, PP, GL 45 with tamper-evident cap, PP



Everyday use bottles made of plastic for sampling and storing liquids in the lab.

Due to the innovative design and the ergonomic shape the bottles have an outstanding easy-grip feature. The slim and tapered shape greatly improves handling in comparison to conventional lab bottles. Furthermore, the molded volume graduations provide texture for an enhanced grip, especially when working with gloves.

Through the optimised sealing system of bottle threads and screw cap the bottle is leak-proof* and offers an optimum pouring behaviour and easy cleaning due to the hydrophobic material and round shape.

With double-sided molded graduations (accuracy ± 5%), the volume inside the bottle is easy to read, even during use.

The included tamper-evident cap reliably signals if the bottle is still sealed before opening.

The bottle has very good chemical resistance against most acids, bases and alcoholic solutions.

Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Graduation ml	Height** mm	Bottom-ø mm	PU	Cat.-No.
125	12.5	103	54	6	110194
250	25	149	64	6	110294
500	25	192	77	6	110394
1000	50	234	97	6	110494
2000	100	278	126	1	110594
Replacement tamper-evident cap, PP, GL 45				6	83330
Starter-Set (3 x VITgrip™ (250 / 500 / 1000 ml) + 3 x tamper-evident cap					111194

* IMPORTANT NOTE: The term leakproof applies under the following test conditions:

The VITgrip™ lab bottle is half filled with distilled water and is closed with the supplied VITLAB® screw closure – after the ring of the tamper-evident closure clicks into place – with a torque of 5 Nm. Subsequently, the bottle is turned upside down and remains, standing on the screw cap, for 15 minutes, without the filled-in water escaping. The test is carried out at room temperature (approx. 20 °C) and atmospheric pressure.

** Height without screw cap.



Narrow-mouth bottles, PFA

Transparent.
With screw cap with buttress threads made of PFA. Ideal for long-term storage of high-purity oxidants, acids, alkalis, as well as hydrocarbons, trace analysis solvents and standards.

The advantages of PFA:

- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no cross-contamination due to the extremely hydrophobic, anti-adhesive, smooth surfaces
- High thermal stability, from -200 °C to +260 °C, autoclavable
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean
- Use of high purity raw materials

Further information on PFA can be found starting on page 122.

Volume ml	Thread	Height mm	Ø mm	PU	Cat. No.
50	S 28	86	37	1	109297
100	S 28	120	45	1	109397
250	S 28	160	61	1	108297
500	S 28	190	76	1	108397
1000	S 28	240	96	1	108497



Wide-mouth bottles, PFA

Transparent.
With screw cap made of PFA with buttress threads. Ideal for long-term storage of high-purity oxidants, acids, alkalis, as well as hydrocarbons, trace analysis solvents and standards.

Volume ml	Thread	Height mm	Ø mm	PU	Cat. No.
250	S 40	150	61	1	109497
500	S 40	179	76	1	109597
1000	S 40	217	96	1	109697
2000	S 40	245	130	1	109797

Screw caps, PFA



Transparent. For sealing all PFA containers with GL threads or buttress threads. Autoclavable at 121 °C (2 bar) according to DIN EN 285.

The advantages of PFA:

- Especially suitable for use in trace analysis
- Ideal for sensitive and valuable samples
- Long-term maintenance of low-concentration reference materials in PFA containers
- No memory effects
- Practically no carryover, no cross-contamination due to the extremely hydrophobic, anti-adhesive and smooth surfaces
- High thermal stability, from -200 °C to +260 °C, autoclavable
- Chemical inertness against nearly all chemicals
- Good transparency and dimensional stability
- Easy to clean
- Highly pure starting materials used

Further information on PFA can be found starting on page 122.

Thread	PU	Cat. No.
S 28	1	102697
S 40	1	102897
GL 18	1	102597
GL 25	1	102397



Narrow-mouth bottles, PP

Transparent. With high shoulders.
With screw cap made of PP.
Good chemical resistance, ideal for long-term storage of liquids.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
250	25	135	65	12	94994
500	25	180	74	12	95094
1000	32	215	92	12	95194



Wide-mouth bottles, PP

Transparent.
With screw cap made of PP.
Good chemical resistance, ideal for long-term storage of liquids.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.
Wider mouth for simple filling, also ideal for powders and paste-like materials.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
250	45	146	58	12	93794
500	45	166	76	12	93994
1000	63	226	91	12	94194

Narrow-mouth bottles, PE-LD



Transparent. With high shoulders.
With screw cap made of PP.
Flexible material with good resilience.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
50	18	85	37	24	94589
100	18	114	43	24	94689
250	25	135	65	12	94989
500	25	180	74	12	95089
1000	32	221	92	12	95189

Wide-mouth bottles, PE-LD



Transparent.
With screw cap made of PP.
Flexible material with good resilience.
Wider mouth for simple filling, also ideal for powders and paste-like materials.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
50	32	87	39	24	93389
100	32	94	47	24	93489
250	45	146	58	12	93789
500	45	166	76	12	93989
1000	63	226	91	12	94189

Screw caps, PP



Transparent. Autoclavable at 121 °C (2 bar) according to DIN EN 285.

Thread GL	PU	Cat. No.
18	24	83310
25	12	83311
32	12	83312
40	12	83315
45	12	83313
52	12	83316
56	12	83317
63	12	83314



Narrow-mouth bottles, PE-LD

Transparent. With flat shoulders.
With screw cap made of PE-LD.
Flexible material with good resilience.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
10	14	50	26	100	138093
20	14	58	31	100	138193
30	14	66	34	100	138293
50	18	85	39	100	138393
100	18	106	45	50	138493
250	25	140	59	50	138593
500	25	180	75	50	138693
1000	28	212	94	25	138793
2000	28	264	117	25	138893



Wide-mouth bottles, PE-LD

Transparent.
With screw cap made of PE-LD.
Flexible material with good resilience.
Wider mouth for simple filling, also ideal for powders and paste-like materials.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
50	32	80	38	100	139393
100	32	94	48	50	139493
250	40	126	62	50	139593
500	50	155	76	50	139693
1000	65	208	93	25	139793
2000	65	246	120	25	139893

Narrow-mouth bottles, PE-HD



Transparent.
With screw cap made of PE-LD.
Small footprint due to the square cross-section and the high shoulders.

Volume ml	Thread GL	Height mm	Size mm	PU	Cat. No.
100	25	76	43 x 43	24	91789
250	28	80	80 x 80	24	91989
500	32	106	90 x 90	12	92089
1000	32	187	80 x 80	12	92189

Wide-mouth bottles, PE-HD



Transparent.
With screw cap made of PE-LD.
Small footprint due to the square cross-section and the high shoulders.
Wider mouth for simple filling, also ideal for powders and paste-like materials.

Volume ml	Thread GL	Height mm	Size mm	PU	Cat. No.
100	32	78	46 x 46	24	92489
250	50	83	80 x 80	24	92689
500	65	120	90 x 90	12	92789
1000	65	168	90 x 90	12	92889

Wide-mouth bottles, PE-LD, with eye closure



Transparent.
With eyes on the bottle and the screw cap for sealing.
With sealing plug and screw cap made of PP.
Wider mouth for simple filling, also ideal for powders and paste-like materials.

Volume ml	Thread mm	Height mm	Ø mm	PU	Cat. No.
50	24	75	40	25	80408
100	24	90	50	25	80409
250	36	130	60	25	80410
500	36	160	75	10	80411
1000	50	200	95	10	80412
2000	50	250	115	10	80413



Reagent bottles, PP

Transparent.
With screw cap made of PP.
Good chemical resistance, ideal for storage of liquids.
Autoclavable at 121 °C (2 bar) in compliance with DIN EN 285, except for sizes 5000 and 10000 ml.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume ml	Thread GL	Height mm	Ø mm	PU	Cat. No.
100	18	100	52	20	100389
100	32	96	55	20	101589
250	25	132	70	20	100489
250	45	132	73	20	101689
500	25	165	87	10	100589
500	45	172	87	10	101789
1000	32	202	108	10	100689
1000	45	197	105	10	102089
1000	63	204	108	10	101889
2000	32	245	131	6	100789
2000	45	241	131	6	102189
2000	63	243	131	6	101989
5000*	45	315	178	1	100889
10000**	63	394	222	1	100989

* with handle, PE-HD

** with PE foam seal and two handles, PE-HD

Reagent bottles, PP



Transparent.
With NS stopper made of PP.
Stopper type A: With square-knob cap and red core.
Stopper type B: With octagonal-knob cap and red core.
Good chemical resistance, ideal for long-term storage of liquids.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.

Volume ml	Neck NS	Height mm	Ø mm	Stopper	PU	Cat. No.
100	14/23	106	52	A	20	100394
100	29/32	111	55	B	20	101594
250	19/26	138	70	A	20	100494
250	34/35	144	73	B	20	101694
500	24/29	172	87	A	10	100594
500	45/40	183	87	B	10	101794
1000	29/32	213	108	A	10	100694
1000	60/46	214	108	B	10	101894

Standard joint stoppers, PP



Stopper type A: With square-knob cap and red core.
Stopper type B: With octagonal-knob cap and red core.
Autoclavable at 121 °C (2 bar) according to DIN EN 285.

NS	Model	PU	Cat. No.
10/19	A	10	90694
12/21	A	10	90794
14/23	A	10	90894
19/26	A	10	90994
24/29	A	10	91094
29/32	A	10	91194
29/32	B	10	92194
34/35	B	10	91294
45/40	B	10	91394
60/46	B	10	91494



Storage bottles, PE-HD, without tap

Transparent.
With stable carrying handle and screw cap.
Available in wide- and narrow-mouth models.

Volume l	Neck inner Ø mm	Height mm	Ø mm	PU	Cat. No.
5	90	318	163	1	81640
5	45	335	163	1	81644
10	120	390	205	1	81642
10	55	415	205	1	81646



Storage bottles, PE-HD, with tap

Transparent. Narrow-mouth model.
With stable carrying handle and screw cap. The 25 and 50 l sizes come equipped with two carrying handles.
Complete with exchangeable, easily operated tap made from PP with a ¾" pipe fitting.

Volume l	Neck inner Ø mm	Height mm	Ø mm	PU	Cat. No.
5	45	335	163	1	81660
10	55	415	205	1	81662
25	79.5	565	280	1	81664
50	79.5	700	350	1	81666



Tap for storage bottles, PP

Replacement tap for storage bottles made from PP (Cat. No. 81660 to 81666).
Complete with ¾" pipe fitting and rubber ring.

Description	PU	Cat. No.
Tap for storage bottles	1	80375

Chemical waste disposal system, PE/PP



For collection of liquid chemicals in the laboratory. The inlet hopper made from PE-HD contains a self-closing float, overfill protection, and a splash guard. Additionally, a screw cap (GL 63) with sealing ring is included.

Volume l	Height mm	Ø mm	PU	Cat. No.
10	560	222	1	151594

Bowl, PP, with lid



White. Rectangular shape.
Broad, stable, easy to grip edge.
Especially easy to clean due to the rounded corners and edges and the smooth surfaces.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume l	L x W x H mm	PU	Cat. No.
17	430 x 331 x 195	1	43610

Transport containers, PE-HD



Transparent.
Easy stackable.
With reinforcing ribs and integrated carrying handles.
Broad, stable edge.

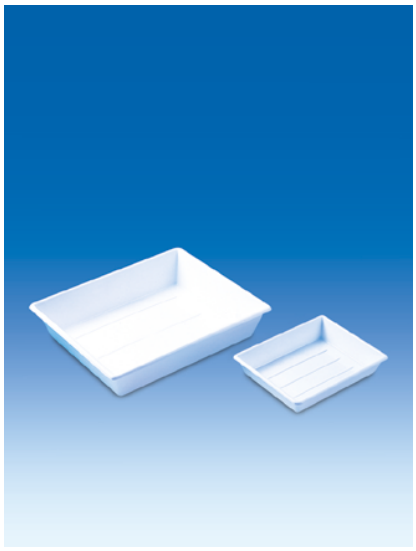
Volume l	L x W x H mm	PU	Cat. No.
20	420 x 310 x 205	1	80602
46	600 x 365 x 260	1	80603
72	700 x 420 x 310	1	80604



Multi-purpose container, SAN

Crystal clear, with fitted lid. Planar bottom inside, reinforced edge outside for stable placement on the lab bench.
Ideal for dust-proof storage of small components, instruments and utensils.

Volume ml	L x W x H mm	PU	Cat. No.
4000	340 x 230 x 94	1	36491



Laboratory trays / catchment trays, PP

White. All-purpose. Robust design. Very good chemical resistance
Rounded corners and edges. Smooth surfaces, easy to clean.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Inner bottom dimensions mm	Edge dimensions mm	Height mm	PU	Cat. No.
130 x 180	180 x 230	42	1	165094
180 x 240	250 x 310	65	1	165194
240 x 300	310 x 370	75	1	165294
300 x 400	420 x 520	120	1	165394
400 x 500	534 x 634	140	1	165494
500 x 700	648 x 846	160	1	165594



Bowls, PP

White. Round. With broad, stable edge and circumferential standing ring on the bottom.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume l	Height mm	Ø mm	PU	Cat. No.
0.9	70	160	5	42594
1.7	80	200	5	42694
2.9	100	240	5	42794
4.3	120	280	5	42894
6.6	130	320	3	42994
9.2	150	360	3	43094
13.4	180	400	3	43194

Lab assistants

Connectors



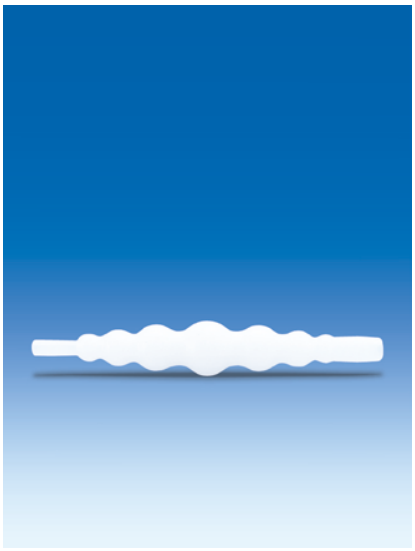
Dishes



Drying racks



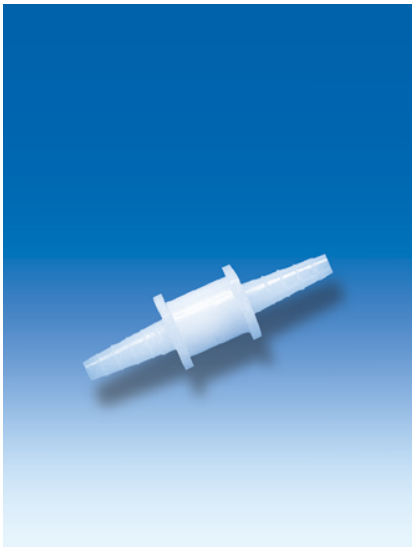
Lab assistants



Multi-purpose container, SAN

Crystal clear, with fitted lid. Planar bottom inside, reinforced edge outside for stable placement on the lab bench.
Ideal for dust-proof storage of small components, instruments and utensils.

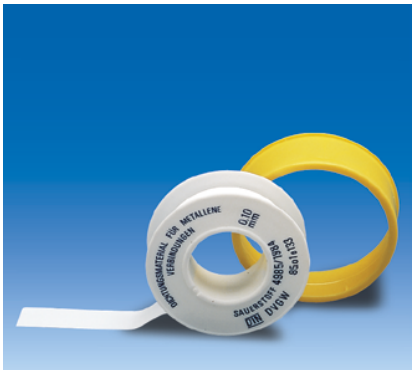
Volume ml	L x W x H mm	PU	Cat. No.
4000	340 x 230 x 94	1	36491



Laboratory trays / catchment trays, PP

White. All-purpose. Robust design. Very good chemical resistance
Rounded corners and edges. Smooth surfaces, easy to clean.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Inner bottom dimensions mm	Edge dimensions mm	Height mm	PU	Cat. No.
130 x 180	180 x 230	42	1	165094
180 x 240	250 x 310	65	1	165194
240 x 300	310 x 370	75	1	165294
300 x 400	420 x 520	120	1	165394
400 x 500	534 x 634	140	1	165494
500 x 700	648 x 846	160	1	165594



Bowls, PP

White. Round. With broad, stable edge and circumferential standing ring on the bottom.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

Volume l	Height mm	Ø mm	PU	Cat. No.
0.9	70	160	5	42594
1.7	80	200	5	42694
2.9	100	240	5	42794
4.3	120	280	5	42894
6.6	130	320	3	42994
9.2	150	360	3	43094
13.4	180	400	3	43194

Lab assistants

Trays, MF



White. Flat shape. Rounded corners. Smooth surfaces, easy to clean.
Practical tray for instruments, tools, and sensitive utensils. Stable and self-supporting.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

L x W x H mm	PU	Cat. No.
190 x 150 x 17	5	71598
240 x 180 x 17	5	71698
268 x 208 x 17	5	71798
355 x 240 x 17	5	71898
428 x 288 x 17	5	71998

Trays, MF



White. Tall shape. Rounded corners. Smooth surfaces, easy to clean.
Practical tray for instruments, tools, and sensitive utensils. Stable and self-supporting.
Fitting lid made of PS, please order separately.
Suitable for contact with foodstuffs according to regulation (EU) No. 10/2011.

L x W x H mm	PU	Cat. No.
190 x 150 x 40	5	72098
290 x 160 x 35	5	72198
290 x 160 x 60	5	72398
340 x 245 x 100	5	72498
350 x 250 x 40	5	72298

Lids for trays, PS



Crystal clear. With handle. Rounded corners. Smooth surfaces, easy to clean.
Protects the contents of the instrument trays from dust and contamination.
The contents remain readily visible.

Size mm	For tray, MF No.	PU	Cat. No.
190 x 150	72098	5	79790
290 x 160	72198, 72398	5	79890
340 x 245	72498	5	79990*

* without handle

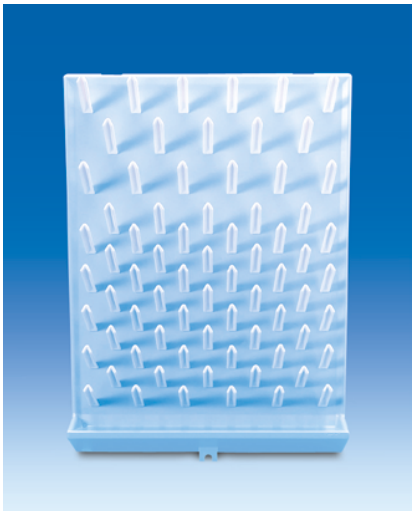
Lab assistants



Drying rack

Back plate and trough made from PVC with drainage nozzle.
With 75 metal pegs (length: 10 cm) with PE coating for hanging various sizes of apparatus.
With two bore holes for simple wall mounting.
Delivered without installation hardware.

Size mm	PU	Cat. No.
450 x 630	1	76299



Drying rack, PS

With wide draining trough and drainage nozzles.
Rack with 72 pegs 95 x 15 mm. For drying larger apparatus, some of the pegs can be removed and the bore holes closed at the rear.
Delivered complete with drainage tube and accessories for the wall installation.
In addition, 11 pegs (95 x 6 mm) are included for objects having a smaller diameter, such as reagent tubes.

Description	Size mm	PU	Cat. No.
Drying rack	450 x 630	1	80213
Pegs	95 x 6	11	81213

Your good name in daily use



Precision is usually of great significance when it comes to ensuring the effective use of granulates, powders or liquids. The transportation, storage and decanting of small volumes often require special containers. VITLAB is one of the leading manufac-turers of high-grade plastic labware and specializes in high-precision printing on plastic products with superior chemical and break resistance.

This offers a great advantage: by having your name and logo printed on these products, you will work "hand in hand" with your clients and always maintain a high presence. The products can be used wherever people work with granulates, powders or liquids; for example, in agriculture, laboratories, the medical sector, the food industry and the cleaning-business, as well as when using colours and chemicals.

Plastic labware by VITLAB guarantees that you have the best manufacturing quality and optimal function-ality associated with your good name, thus ensuring a sustained positive echo.



A positive echo through individuality

VITLAB develops and manufactures its products at its own production facilities. This allows us to produce and print plastic labware according to your individual requirements and specifications. Please do not hesitate to inform us of your wishes and we will let you know what sort of individual solution we can provide for you.

When it comes to precision and accuracy

Volumetric containers by VITLAB stand out due to the greater precision and accuracy ensured by the measuring scale. On request, VITLAB can also print a customized scale on your product. The quality colours guarantee that the scale remains readable and does not wear off.

Small gifts keep the friendship alive

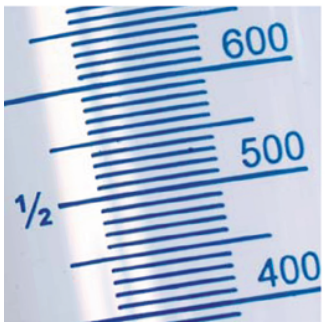
Plastic products have a high level of usability and are ideally suited as advertising articles or for promotional campaigns for your products. You can have your company name and logo or other motifs printed on them permanently and thus advertise with your good name.

A unique position thanks to an unmistakable design

VITLAB provides advertising materials of the very highest quality with round, conical or flat printing, using screen or pad printing systems and with particularly durable and luminescent colours according to the Pantone and HKS colour table. Various marking techniques, such as laser printing and heat embossing, provide you with an unmistakable design.









Would you like to have more information?

Please do not hesitate to contact us!

Please do not hesitate to contact us for advice on the selection, design and colour of your plastic products. A personal consultant ensures that you receive competent advice from the first meeting to the delivery of the product.

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