

VITLAB® genius & simplex



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.

VITLAB® genius and simplex bottle-top dispensers are a family of instruments with proven precision that offer many advantages in routine liquid-handling operations. VITLAB® genius and simplex instruments can be used in practically any operation and are suitable for **organic and inorganic solutions**. The materials that come in contact with media (PTFE, PFA, FEP, borosilicate glass and platinum-iridium) are resistant to most acids, bases, and solvents.

VITLAB® genius and simplex are equipped with a positive displacement piston and a fluoroplastic (PFA) sealing lip on the cylinder wall. The 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.

VITLAB® genius is also equipped with our patented recirculation valve (EP 542 241) that reduces reagent loss when ventilated. The simple-to-use calibration function of the VITLAB® genius helps to meet all of the requirements of testing-apparatus monitoring, with the minimum of downtime.

VITLAB® genius and simplex are completely autoclavable at 121 °C (2 bar) according to DIN EN 285, and are certified compliant with DIN 12600.

Included in delivery:

VITLAB® genius or VITLAB® simplex with 3 threaded adapters made from PP. Nominal volumes of 2.5 - 10 ml (screw coupling GL 32) with adapters GL 28, S 40 and GL 45. Nominal volumes of 25 - 100 ml (screw coupling GL 45) with adapters GL 32, GL 38 and S 40. Telescopic filling tube (200 - 350 mm), mounting tool, instruction manual, and quality certificate stating all test values.

Volume ml	Graduation ml	A* ≤ ± %	CV* ≤ %	PU	VITLAB® simplex Cat. No.	VITLAB® genius Cat. No.
-----------	---------------	----------	---------	----	--------------------------	-------------------------

VITLAB® simplex/genius

0.25 - 2.5	0.05	0.6	0.1	1	1601503	1605503
0.5 - 5.0	0.10	0.5	0.1	1	1601504	1605504
1.0 - 10.0	0.20	0.5	0.1	1	1601505	1605505
2.5 - 25.0	0.50	0.5	0.1	1	1601506	1605506
5.0 - 50.0	1.00	0.5	0.1	1	1601507	1605507
10.0 - 100.0	2.00	0.5	0.1	1	1601508	1605508

VITLAB® simplex fix

1.0	-	0.6	0.1	1	1602502	
5.0	-	0.5	0.1	1	1602504	
10.0	-	0.5	0.1	1	1602505	

* Accuracy and coefficient of variation according to DIN EN ISO 8655-5





Calibration mechanism for adjustment within the scope of test equipment monitoring (genius only)

Smooth handling! Direct displacement plunger with broad PFA seal prevents crystallization build-up

Settings are quickly and accurately adjusted with a practical screw mechanism

Reduced titrant waste with patented¹⁾ recirculation valve (genius only)

Rotates freely 360° on bottle to a convenient position

Attached tube-cap reduces the risk of drips

Various adapters allow the dispenser to be used on bottles of different sizes

Telescopic, extractable intake tube adapts dispenser to bottles of varying heights

1) EP 542 241