



## Bottle Top Dispensers

United brand bottle top dispensers offer high accuracy at economical prices. Each dispenser is individually calibrated and certified in an ISO 17025 accredited laboratory in accordance with ISO 8655 standards.

Five adapters are included with each unit for use with a wide range of bottle sizes. All wetted parts are made from PTFE and borosilicate glass for maximum chemical resistance.

These easy-to-use instruments are suitable for all laboratory applications except HF. Special precautions must be taken for use, cleaning, and storage when working with concentrated fuming acids.

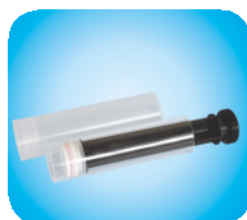
Dispensers are easy to disassemble and can be recalibrated in the lab. Fully autoclavable at 121°C, 15psi for 10 to 15 minutes.

Item No.	Volume Range (ml)	Volume Increment (ml)	Accuracy ( $\pm$ % / ml)	CV ( $\pm$ % / ml)	Bottle Size (ml)
BTDR-1	0.25 - 2.5	0.05	0.6 / 0.015	0.2 / 0.005	
BTDR-2	0.5 - 5	0.1	0.5 / 0.025	0.1 / 0.005	
BTDR-3	1 - 10	0.2	0.5 / 0.050	0.1 / 0.010	
BTDR-4	2.5 - 30	0.5	0.5 / 0.150	0.1 / 0.030	
BTDR-5	5 - 60	1.0	0.5 / 0.300	0.1 / 0.060	
<b>Bottle Top Dispensers with Bottles</b>					
BTDR1-SET	0.25 - 2.5	0.05	0.6 / 0.015	0.2 / 0.005	100
BTDR2-SET	0.5 - 5	0.1	0.5 / 0.025	0.1 / 0.005	100
BTDR3-SET	1 - 10	0.2	0.5 / 0.050	0.1 / 0.010	250
BTDR4-SET	2.5 - 30	0.5	0.5 / 0.150	0.1 / 0.030	500
BTDR5-SET	5 - 60	1.0	0.5 / 0.300	0.1 / 0.060	1000
BTDR6-SET	5 - 60	1.0	0.5 / 0.300	0.1 / 0.060	2000

**Sets with plastic narrow-mouth bottles are available upon request. Please call for details.**



**Piston:**  
Specially designed PTFE piston ensures smooth, effortless movement and high accuracy.



**Glass Barrel Protection:**  
Polypropylene sleeve protects glass barrel and prevents glass splitting in case of any accidental breakage.



**Adjustable Nozzle with Cap:**  
Delivery nozzle adjusts for easy dispensing at different angles. Cap prevents any unwanted drops on the workspace and avoids contact with chemicals.



**Valve Manifold:**  
Specially designed, springless, PTFE valve manifold provides excellent chemical compatibility and leak-proof valve functioning.



**Volume Adjustment Knob:**  
Quick-set volume adjustment knob with large pointer enables precise, easy, and fast volume adjustment.



**Adapters:**  
A set of adapters to fit most laboratory reagent bottles are provided. Sizes are 28, 30, 32, 36, 40, and 45 mm.



**Calibration:**  
Specially designed calibration tool is provided for convenient and quick in-lab user re-calibration. This is in compliance with GLO/ISO norms.





# UNITED SCIENTIFIC SUPPLIES, INC.



**STATUS PASSED**

**CALIBRATION REPORT**

DEVICE ID: 1301007  
METHOD: D-0101

DESCRIPTION: Bottle Top Dispenser 1-100ml  
DATE: 01/04/13

ENVIRONMENTAL FACTORS  
TEMP: 20.00 C  
AIR HUMIDITY: 50.00% RH

BARO PRESSURE: 1013.05 mbar  
Z FACTOR: 1.0000 mbar/g

REL. HUMIDITY: 50.00%  
CERT. EXP.: 0.0000 mbar/g C

**CALIBRATION STATISTICS**

Vol	No	Vol	Vol	Mass	SD	Inspection 1%	Actual	Target	Status	Inspection CV%
0.2	2	0.20	0.20	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
0.5	2	0.50	0.50	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
1.0	2	1.00	1.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
2.0	2	2.00	2.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
5.0	2	5.00	5.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
10.0	2	10.00	10.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
20.0	2	20.00	20.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
50.0	2	50.00	50.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00
100.0	2	100.00	100.00	0.00	0.00	0.00	0.00	0.00	PASSED	0.00

**Quality Control**

Signature: \_\_\_\_\_ Date: 01/04/13

Inspector: \_\_\_\_\_ Date: 01/04/13

Calibrator: \_\_\_\_\_ Date: 01/04/13

Notes: \_\_\_\_\_

Reference Standard: \_\_\_\_\_

The instrument is calibrated using identical reference material with reference uncertainty of 0.1%.

The reported expanded uncertainty of measurement is expressed as a percentage of the measured value.

Measurement uncertainty is calculated by the standard deviation of the measurement data.

Measurement uncertainty is expressed as a percentage of the measured value.

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**An Individual Calibration certificate is provided with each Bottle Top Dispenser.**

United bottle top dispensers are manufactured using carefully selected raw materials and go through several stages of strict quality checks during the manufacturing process.

Component	Description
Piston	PTFE
Cylinder	Glass
Volume Adjustment Knob	Valve Type
Valve Housing	PTFE
Valve Assembly	Glass Ball & Seat
Discharge Assembly	PTFE
Delivery Tube	FEP
Inlet Tube	FEP
Calibration	Individually calibrated and certified. In-lab easy calibration by the user is also possible.
Accuracy and Reproducibility	In accordance with ISO 8655 standards.
Compatibility	Excellent compatibility with all reagents except HF.

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