TECHNICAL DATA SHEET

ALab™ StepMate Stepper

Positive-displacement repetitive dispenser · 10 µL to 5 mL · up to 48 steps



ALab™ StepMate Stepper

The ALab™ StepMate Stepper; image shown for reference.

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SECTION I

Product Overview

The ALab™ StepMate Stepper is a positive-displacement repetitive dispenser. With disposable polypropylene dispenser tips from 0.5 to 50 mL it dispenses 10 µL to 5 mL per step, with up to 48 steps in succession from one filling.

Set the volume selection dial (1 to 5), insert a tip, which is held by the tip stop lever, slide the lever upwards to fill, and dispense step by step. The tips suit viscous or foaming solutions and volatile liquids and are made without soft lubricants or other additives. Discard the first and last dispensed volume for best precision.

SECTION II

Core Advantages

- **Volume** — 10 µL to 5 mL per step
- **Principle** — positive displacement
- **Body** — slim, light, robust
- **Steps** — up to 48 per filling
- **Tips** — stop lever retention
- **Tip sizes** — seven, 0.5 to 50 mL

SECTION III

Specifications

Technical data — StepMate

Specifications	
Brand	ALab™ by ACS Material
Model	StepMate
SKU #	Parent ALSTPM0F; ALSTPM00; tips ALSTPMC1 to ALSTPMC7
Product type	Stepper (repetitive dispenser)
Principle	Positive displacement
Dispensing volume per step	10 µL to 5 mL (depends on tip and dial setting)
Volume selection	Dial, settings 1 to 5
Steps per filling	48 / 23 / 15 / 11 / 8 at dial settings 1 / 2 / 3 / 4 / 5
Compatible tips	Disposable dispenser tips, 0.5, 1.25, 2.5, 5, 12.5, 25 and 50 mL
Tip materials	Piston PE-HD, cylinder PP; no soft lubricants or other additives
Tip retention	Dispenser tip stop lever

Dispensing volume per step (µL) and accuracy

Tip (mL)	Dial 1	Dial 2	Dial 3	Dial 4	Dial 5	Syst. (±%)	Random (≤%)
0.50	10	20	30	40	50	0.8	0.7
1.25	25	50	75	100	125	0.8	0.5
2.50	50	100	150	200	250	0.8	0.4
5.00	100	200	300	400	500	0.4	0.3
12.50	250	500	750	1000	1250	0.3	0.3
25.00	500	1000	1500	2000	2500	0.2	0.3
50.00	1000	2000	3000	4000	5000	0.2	0.2
Steps	48	23	15	11	8		

Accessories — dispenser tips

Cat. No.	SKU #	Description
17900032	ALSTPMC1	0.5 mL dispenser tip, piston PE-HD, cylinder PP; pack of 5.
17900033	ALSTPMC2	1.25 mL dispenser tip, piston PE-HD, cylinder PP; pack of 5.
17900034	ALSTPMC3	2.5 mL dispenser tip, piston PE-HD, cylinder PP; pack of 5.
17900035	ALSTPMC4	5 mL dispenser tip, piston PE-HD, cylinder PP; pack of 5.
17900036	ALSTPMC5	12.5 mL dispenser tip, piston PE-HD, cylinder PP; pack of 5.
17900037	ALSTPMC6	25 mL dispenser tip, piston PE-HD, cylinder PP; pack of 2 with 1 adapter.
17900038	ALSTPMC7	50 mL dispenser tip, piston PE-HD, cylinder PP; pack of 2 with 1 adapter.

Scope of delivery

- Standard configuration: StepMate Stepper.

— Accessories: dispenser tips 0.5 to 50 mL, Cat. No. 17900032 to 17900038 (SKU ALSTPMC1 to ALSTPMC7).

SECTION IV

Applications

Repetitive dispensing in the clinical, biological, chemical, food and beverage, and pharmaceutical industries.

Viscous or foaming solutions, volatile liquids and long series of identical volumes. Choose the tip and dial setting from the volume table.

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