

Laboratory Manual Adjustable Single Channel Micropipette For Precision Liquid Handling

Item Number: JZ08



Introduction

Enhance experimental precision with this laboratory manual adjustable single channel micropipette featuring autoclavable lower parts, an integrated digital volume display, exceptional accuracy across broad ranges, and included calibration tools for demanding battery chemistry and material synthesis.

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Application	Description	Key Benefit
Battery Electrolyte Formulation	Micro-volume dispensing of functional electrolyte additives, ionic liquids, and specialized solvent ratios for coin and pouch cell research.	Eliminates volumetric variance to ensure precise additive concentration and repeatable electrochemical performance.
Nanomaterial Slurry Synthesis	Accurate titration and additive dosing during cathode and anode slurry preparation, carbon nanotube dispersion, and binder blending.	Maintains exact stoichiometric balance across sub-milliliter and milliliter reaction volumes.
Thin-Film Coating Solution Prep	Measuring exact precursor solution volumes for spin coating, dip coating, and blade casting in perovskite and solid-state battery studies.	Delivers uniform liquid handling for film thickness consistency and defect-free deposition.
Catalyst & Reagent Synthesis	Delivering micro-quantities of metal salts, organometallic catalysts, and surfactants in synthetic chemistry reactors.	High accuracy at low volumes minimizes expensive reagent waste and prevents secondary reaction pathways.
Analytical Dilution Series	Preparing standard calibration curves and serial dilutions for HPLC, ICP-MS, and spectrophotometric liquid sample analysis.	High precision and low systematic error ensure linearity across diverse concentration regimes.
Biological & Biochemical Assays	Performing enzyme assays, protein extraction titrations, and cell culture media supplement additions in clean environments.	Autoclavable lower components eliminate biological cross-contamination between successive protocol runs.
Material Quality Assurance	Routine batch-level volumetric sampling and chemical reagent dispensing in manufacturing QC laboratories.	Durable mechanical construction maintains calibration integrity under continuous multi-operator shifts.

Product Code	Volume Range	Increment	Test Volume	Inaccuracy (± %)	Imprecision (± %)
JZ08-01	0.1 - 2.5 µl	0.05 µl	2.5 µl 1.25 µl 0.25 µl	2.50% 3.00% 12.00%	2.00% 3.00% 6.00%
JZ08-02	0.5 - 10 µl	0.1 µl	10 µl 5 µl 1 µl	1.00% 1.50% 2.50%	0.80% 1.50% 1.50%
JZ08-03	2 - 20 µl	0.5 µl	20 µl 10 µl 2 µl	0.90% 1.20% 3.00%	0.40% 1.00% 2.00%
JZ08-04	5 - 50 µl	0.5 µl	50 µl 25 µl 5 µl	0.60% 0.90% 2.00%	0.30% 0.60% 2.00%
JZ08-05	10 - 100 µl	1.0 µl	100 µl 50 µl 10 µl	0.80% 1.00% 3.00%	0.15% 0.40% 1.50%

Product Code	Volume Range	Increment	Test Volume	Inaccuracy (± %)	Imprecision (± %)
JZ08-06	20 - 200 µl	1.0 µl	200 µl	0.60%	0.15%
			100 µl	0.80%	0.30%
			20 µl	3.00%	1.00%
JZ08-07	50 - 200 µl	1.0 µl	200 µl	0.60%	0.15%
			100 µl	0.80%	0.30%
			50 µl	1.00%	0.40%
JZ08-08	100 - 1000 µl	5.0 µl	1000 µl	0.60%	0.20%
			500 µl	0.70%	0.25%
			100 µl	2.00%	0.70%
JZ08-09	200 - 1000 µl	5.0 µl	1000 µl	0.60%	0.20%
			500 µl	0.70%	0.25%
			200 µl	0.90%	0.30%
JZ08-10	1000 - 5000 µl	50.0 µl	5000 µl	0.50%	0.15%
			2500 µl	0.60%	0.30%
			1000 µl	0.70%	0.30%
JZ08-11	2 - 10 ml	0.1 ml	10 ml	0.60%	0.20%
			5 ml	1.20%	0.30%
			2 ml	3.00%	0.60%