

Laboratory Micro Manual Adjustable Single Channel Pipette

Item Number: YY02



Introduction

Laboratory micro manual adjustable single channel pipette with ergonomic lightweight design digital volume display broad 0.1-5000µL range autoclavable construction and convenient calibration support for precise laboratory liquid handling in demanding scientific environments

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Application	Description	Key Benefit
Battery Research Sample Preparation	Dispense electrolytes, solvents, additives, and liquid reagents during slurry development, cell assembly preparation, and materials screening.	Supports controlled addition of small quantities and improves repeatability between experimental batches.
Advanced Materials Research	Transfer solutions, dispersions, precursors, and chemical modifiers used in powder, ceramic, coating, and functional-material experiments.	Broad volume coverage accommodates both micro-scale formulation work and larger preparation steps.
Pharmaceutical and Analytical Testing	Prepare standards, dilute samples, and transfer reagents for laboratory testing workflows where visible volume settings and documented performance are important.	Helps operators verify settings quickly while maintaining consistent manual dispensing.
Polymer Testing and Formulation	Add catalysts, solvents, modifiers, and test liquids during polymer formulation, comparative testing, and process development.	Overlapping volume ranges allow selection of a suitable configuration for each formulation method.
Chemistry Teaching and Academic Laboratories	Support routine liquid transfer in undergraduate chemistry, research laboratories, and shared academic facilities.	Lightweight handling and straightforward adjustment make the equipment practical for frequent bench use.
Quality Control and Method Verification	Transfer defined sample and reagent volumes during inspection, comparative analysis, and repeatability checks.	Published accuracy and precision data provide a clear basis for method suitability evaluation.
General Laboratory Reagent Handling	Perform individual liquid transfers across research, development, and production-support laboratories.	Single-channel control is useful where samples require independent handling rather than multiwell parallel dispensing.

Site-Facing Identifier	Volume Range	Increment	Test Volume 1	Inaccuracy ± at Test Volume 1	Imprecision ± at Test Volume 1	Test Volume 2	Inaccuracy ± at Test Volume 2	Imprecision ± at Test Volume 2	Test Volume 3	Inaccuracy ± at Test Volume 3	Imprecision ± at Test Volume 3
YY02-01	0.1-2.5 µl	0.05 µl	2.5 µl	2.50%	2.00%	1.25 µl	3.00%	3.00%	0.25 µl	12.00%	6.00%
YY02-02	0.5-10 µl	0.1 µl	10 µl	1.00%	0.80%	5 µl	1.50%	1.50%	1 µl	2.50%	1.50%
YY02-03	2-20 µl	0.5 µl	20 µl	0.90%	0.40%	10 µl	1.20%	1.00%	2 µl	3.00%	2.00%
YY02-04	5-50 µl	0.5 µl	50 µl	0.60%	0.30%	25 µl	0.90%	0.60%	5 µl	2.00%	2.00%
YY02-05	10-100 µl	1 µl	100 µl	0.80%	0.15%	50 µl	1.00%	0.40%	10 µl	3.00%	1.50%
YY02-06	20-200 µl	1 µl	200 µl	0.60%	0.15%	100 µl	0.80%	0.30%	20 µl	3.00%	1.00%
YY02-07	50-200 µl	1 µl	200 µl	0.60%	0.15%	100 µl	0.80%	0.30%	50 µl	1.00%	0.40%
YY02-08	100-1000 µl	5 µl	1000 µl	0.60%	0.20%	500 µl	0.70%	0.25%	100 µl	2.00%	0.70%

Site-Facing Identifier	Volume Range	Increment	Test Volume 1	Inaccuracy± at Test Volume 1	Imprecision± at Test Volume 1	Test Volume 2	Inaccuracy± at Test Volume 2	Imprecision± at Test Volume 2	Test Volume 3	Inaccuracy± at Test Volume 3	Imprecision± at Test Volume 3
YY02-09	200-1000 µl	5 µl	1000 µl	0.60%	0.20%	500 µl	0.70%	0.25%	200 µl	0.90%	0.30%
YY02-10	1000-5000 µl	50 µl	5000 µl	0.50%	0.15%	2500 µl	0.60%	0.30%	1000 µl	0.70%	0.30%
YY02-11	2-10 ml	0.1 ml	10 ml	0.60%	0.20%	5 ml	1.20%	0.30%	2 ml	3.00%	0.60%

General Specification	Detail
Product Type	Laboratory micro manual adjustable single channel pipette
Overall Volume Range	0.1 µl-5000 µl
Operating Format	Manual, adjustable, single channel
Volume Display	Digital viewing window
Sterilization Capability	Half of the pipette can undergo high-temperature and high-pressure sterilization
Calibration and Maintenance	Accessory tool provided for convenient calibration and maintenance