

HiMedia Micropipettes

Exclusive from HiMedia

64 Channels Micropipette



HIMEDIA[®]

For life is precious



HiMedia Micropipettes

HiMedia offers the most comprehensive range of fixed and variable volume single channel micropipettes & multichannel micropipettes.

- Air displacement pipettes designed for dispensing liquid samples of low and moderate viscosities.
- Designed for **Accuracy, Precision and Comfort**.
- Each pipette is **numerically coded** or **colour-coded** and can be easily and quickly adjusted within its volume range simply by turning the thumb button.
- **Click-stop** digital system facilitates volume setting with a click sound which does not get disturbed even after large number of dispensings.
- The two-step plunger operation allows you to use **“Reverse Pipetting Technique”** during repeated pipetting from the same tip and also when dealing with detergent solutions. This also facilitates last drop dispensing.
- Separate, Streamlined Tip Ejector is provided to ensure **safe working** with biohazardous material and prevents **accidental tip ejection**. Streamlined design of the tip ejector ensures **easy access** to narrow necked bottles/tubes without moving the ejector and allows safe, hands-off tip disposal.

Micropipettes available with HiMedia at a glance

1. Variable volume microlitre pipettes (Table 1)
2. Fixed volume microlitre pipettes (Manual tip ejection) (Table 2)
3. Fixed volume microlitre pipettes (with tip ejector system) (Table 3)
4. Hi-pette fixed volume microlitre autopipettes (with tip ejector system, entirely autoclavable) (Table 4)
5. Single channel variable volume Tufpette pipettes (Table 12)
6. Single channel Fixed volume tufpette pipettes (Table 13)
7. Trivolume Tufpette pipette (Table 16)
8. Multi channel Tufpette pipettes (Table 17)

Other required items

9. Compatible microtips (Table 5 and Table 7)
10. Pipette stands (Table 6 and Table 11)
11. Universal Barrier Tips (Table 14)
12. Universal non Barrier Tips (Table 15)

Variable Volume Microlitre Pipettes

- Convenient one-hand operation with smooth plunger action having tip ejection arrangement.
- Rugged, hand-held variable volume micropipettes, excellent for lab technicians, research scientists and students use.
- Volumes can be continuously adjusted by rotating plunger button.
- Each pipette has been tested and calibrated and comes with its own calibration certificate.

Table - 1

Code	Description	Vol. capacity	Vol.	Inaccuracy (%)	C.V.(%)
LA611	Varivol II Micropipette -10	0.5 to 10 µl	1.00 µl	± 2.50	± 1.00
			5.00 µl	± 2.00	± 1.00
			10.00 µl	± 1.5	± 0.80
LA612	Varivol II Micropipette - 50	5 to 50 µl	5.00 µl	± 2.00	± 2.00
			25.00 µl	± 0.80	± 0.40
			50.00 µl	± 0.60	± 0.30
			100 µl	± 1.00	± 0.40
LA613	Varivol II Micropipette -200	50 to 200 µl	50.0 µl	± 1.00	± 0.40
			100 µl	± 0.80	± 0.20
			200 µl	± 0.60	± 0.15
LA614	Varivol II Micropipette -1000	200 to 1000 µl	200 µl	± 0.90	± 0.30
			500 µl	± 0.75	± 0.25
			1000 µl	± 0.60	± 0.20
			10 µl	± 3.00	± 1.50
LA615	Varivol II Micropipette -100	10 to 100 µl	50 µl	± 1.00	± 0.50
			100 µl	± 0.80	± 0.15
			100 µl	± 2.00	± 0.70
LA616	Varivol II Micropipette -1000	100 to 1000 µl	100 µl	± 2.00	± 0.70
			500 µl	± 1.00	± 0.40
			1000 µl	± 0.60	± 0.20
			2.0 µl	± 2.50	± 1.50
LA617	Varivol II Micropipette -20	2 to 20 µl	10.0 µl	± 1.50	± 1.00
			20.0 µl	± 0.90	± 0.40
			20.0 µl	± 0.80	± 0.40
LA618	Varivol II Micropipette -200	20 to 200 µl	100 µl	± 0.70	± 0.30
			200 µl	± 0.60	± 0.15
			500 µl	± 1.00	± 0.40
			2500 µl	± 0.70	± 0.30
LA619	Varivol II Micropipette -5000	500 to 5000 µl	5000 µl	± 0.60	± 0.20



Fixed Volume Microlitre pipettes(Manual tip ejection)

(Range available: 2µl - 1000µl)

This pipette is provided with suitable microtips. For additional requirement of tips one may refer the range of disposable microtips as listed in Table 5 or Table 7.

Table - 2

Code	Description	Vol. capacity	Inaccuracy (%)	C.V. (%)
LA233	Fixvo Micropipette- 2	2 µl	± 1.0	± 0.8
LA235	Fixvo Micropipette -7	7 µl	± 1.0	± 0.8
LA237	Fixvo Micropipette-15	15 µl	± 0.8	± 0.4
LA240	Fixvo Micropipette- 30	30 µl	± 0.7	± 0.3
LA242	Fixvo Micropipette-75	75 µl	± 0.7	± 0.3
LA246	Fixvo Micropipette-4 plus	250 µl	± 0.5	± 0.2
LA247	Fixvo Micropipette-5 plus	300 µl	± 0.5	± 0.2
LA248	Fixvo Micropipette-6 plus	500 µl	± 0.5	± 0.2
LA249	Fixvo Micropipette-7 plus	1000 µl	± 0.5	± 0.2

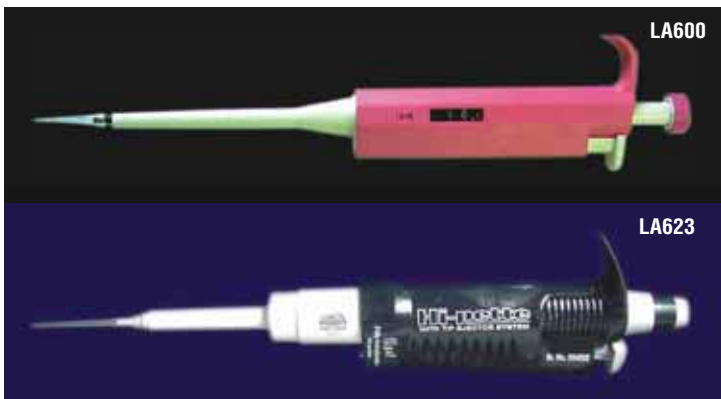


Fixed Volume Microlitre pipettes (with tip ejector system)

Tip ejector system is provided to ensure safe working with biohazardous material and prevent accidental tip ejection. Streamlined design of the tip ejector ensures easy access to narrow necked bottles/tubes without moving the ejector and allows safe, hands-off tip disposal.

Table - 3

Code	Description	Vol. capacity	Inaccuracy (%)	C.V. (%)
LA599	Fixvo II Micropipette-5	5 µl	± 1.30	± 1.20
LA600	Fixvo II Micropipette-10	10 µl	± 0.80	± 0.80
LA601	Fixvo II Micropipette-20	20 µl	± 0.60	± 0.50
LA602	Fixvo II Micropipette-25	25 µl	± 0.50	± 0.30
LA603	Fixvo II Micropipette-50	50 µl	± 0.50	± 0.30
LA604	Fixvo II Micropipette-100	100 µl	± 0.50	± 0.30
LA605	Fixvo II Micropipette-200	200 µl	± 0.40	± 0.20
LA606	Fixvo II Micropipette-250	250 µl	± 0.40	± 0.20
LA607	Fixvo II Micropipette-500	500 µl	± 0.30	± 0.20
LA608	Fixvo II Micropipette-1000	1000 µl	± 0.30	± 0.20
LA609	Fixvo II Micropipette-2000	2000 µl	± 0.25	± 0.20
LA610	Fixvo II Micropipette-5000	5000 µl	± 0.25	± 0.20



Hi-pette Fixed Volume Microlitre Auto pipettes

(with tip ejector system, entirely autoclavable)

These Hi-pette fixed volume microlitre auto pipettes are entirely autoclavable and provided with tip ejector system. **This pipette is provided with suitable microtips.** For additional requirement of tips one may refer the range of disposable microtips as listed in Table 5 or Table 7.

Table - 4

Code	Description	Vol. capacity	Inaccuracy (%)	C.V. (%)
LA623	Hi-pette Fixvo Micropipette-5	5 µl	± 1.0	± 0.8
LA624	Hi-pette Fixvo Micropipette-10	10 µl	± 1.0	± 0.8
LA625	Hi-pette Fixvo Micropipette-20	20 µl	± 0.6	± 0.3
LA626	Hi-pette Fixvo Micropipette-25	25 µl	± 0.7	± 0.3
LA627	Hi-pette Fixvo Micropipette-50	50 µl	± 0.5	± 0.2
LA628	Hi-pette Fixvo Micropipette-100	100 µl	± 0.5	± 0.2
LA629	Hi-pette Fixvo Micropipette-200	200 µl	± 0.5	± 0.2
LA630	Hi-pette Fixvo Micropipette-500	500 µl	± 0.5	± 0.2
LA631	Hi-pette Fixvo Micropipette-1000	1000 µl	± 0.5	± 0.2

MicroTips (Disposable, suitable for Micropipettes)

Streamlined tips ensures safe working with biohazardous material and prevents accidental tip ejection. Comparative pipettes for the corresponding disposable microtips are listed in the table displaying the range of microtips.

Table - 5

Code	Vol. capacity	Colour	Suitable pipettes	Compatible pipette codes
LA270	10,000 µl	Natural	Harmony Micropipettes	LA533, LA539, LA541
LA271	5000 µl	Natural	Fixvo and Variable Micropipettes	LA609, LA610, LA619
LA272	1000µl	Natural	Harmony Micropipettes, Fixvo Micropipettes, Variable Micropipettes	LA246 to LA249, LA538, LA552, LA553, LA594, LA597, LA608, LA614, LA616
LA273	1000µl	Pink	Fixvo Micropipettes	LA606, LA607, LA608
LA282	250 µl	Green	Variable Micropipettes	LA629, LA630, LA631
LA284	200 µl	Yellow	Harmony Micropipettes, Variable Micropipettes, Fixvo Micropipettes	LA612
LA286	200 µl	Natural	Harmony Micropipettes, Variable Micropipettes, Fixvo Micropipettes	LA237 to LA245, LA599
LA288	1 µl to 20 µl	Natural	Fixvo Micropipettes, Clickpet Dispensers, Harmony Micropipettes, Variable Micropipettes	LA600, LA601, LA602, LA603, LA604, LA605
				LA612, LA613, LA614
				LA615, LA618
				LA627, LA628
				LA238, LA240, LA241, LA242, LA244, LA605, LA612, LA613, LA615, LA618
				LA233, LA235, LA236, LA237, LA240, LA611, LA617, LA623, LA625
				LA626, LA639

Accessories

Autopipette and Micropipette Stands

HiMedia provides an acrylic pipette stand with a holding capacity for 9 (LA 632) micropipettes. The autopipette stand comes with an additional provision of tip boxes, for easy user accessibility. The stand has been so designed where in the tip boxes can be stored along with micropipette.

Table - 6

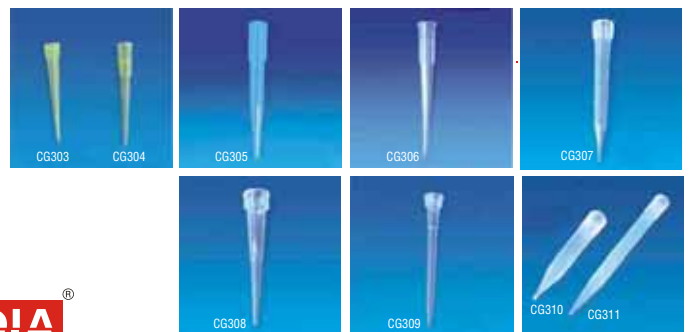
Code	Description
LA632	Hi-pette Autopipette Stand made with Acrylic Sheet, 9 pipette holding capacity, with Tip box.

Polypropylene Micropipette Tips

Tips, made up of polypropylene, for easy access to bottles and vessels with narrow openings, ensuring safe working with biohazardous material.

Table - 7

Code	Colour	Volume	Suitable For
CG 303	Yellow	200µl	TufPette Eppendorf / Universal Micropipettes
CG 304	Yellow	200µl	TufPette Gilson / Universal Micropipettes
CG 305	Blue	1000µl	TufPette Gilson / Universal Micropipettes
CG 306	Neutral	200µl	TufPette Finn Micropipettes
CG 307	Neutral	300µl	TufPette Eppendorf Micropipettes
CG 308	Neutral	5-10µl	TufPette Gilson Micropipettes
CG 309	Neutral	10µl	TufPette Eppendorf Micropipettes
CG 310	Neutral	5000µl	TufPette Gilson / Universal Micropipettes
CG 311	Neutral	5000µl	TufPette Finn / Universal Micropipettes



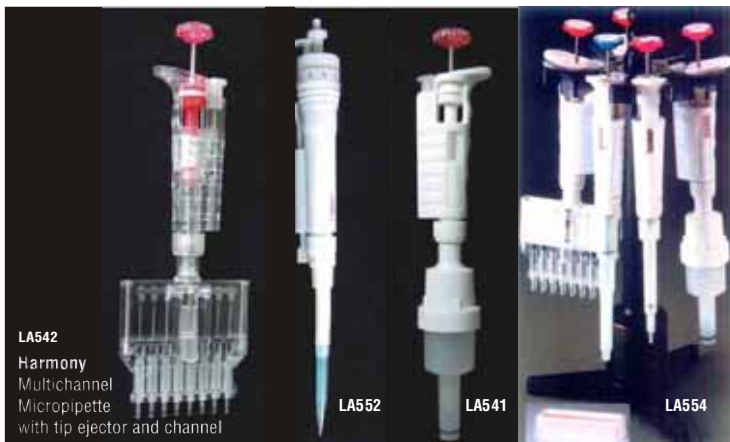
Harmony Pipettes®

Variable volume micropipettes

- **Easy to set:** Minimum and maximum volumes set within 10 complete revolutions of the dial. Dial is fixed to the plunger. Gloves never have to get caught between the dial and the pipette.
- **Comfortable grip:** Harmony Clear Pipettes are designed with users in mind. Light plunger action reduces fatigue when used over prolonged periods. Less fatigue means better accuracy and precision.
- **Tip ejector:** Tip ejector ensures safe ejection of contaminated tips. Ejector can be removed for access to bottles and vessels with narrow openings.

Table - 8

Code	Description	Vol. capacity	Compatible Tips	Accuracy
LA532	Clear pipette	0.2-2 µl	LA288	0.2µl ± 5.0%; 2µl ± 0.5%
LA592	Clear pipette	2-20 µl	LA288	2 µl ± 2.5%; 20µl ± 1.0%
LA593	Clear pipette	20-200 µl	LA284	20 µl ± 2.5%; 200µl ± 0.8%
LA594	Clear pipette	100-1000 µl	LA280	100 µl ± 2.5%; 1000µl ± 0.8%
LA533	Clear pipette	1-10 ml	LA270	1ml ± 2.5%; 10ml ± 0.8%
LA534	Green pipette	0.2-2 µl	LA288	0.2µl ± 5.0%; 2µl ± 0.5%
LA535	Red pipette	1-10 µl	LA288	1 µl ± 2.5%; 10 µl ± 0.8%
LA536	Purple pipette	2-20 µl	LA288	2 µl ± 2.5%; 20µl ± 1.0%
LA537	Orange pipette	20-200 µl	LA284	20 µl ± 2.5%; 200µl ± 0.8%
LA538	Blue pipette	100-1000 µl	LA281	100 µl ± 2.5%; 1000µl ± 0.8%
LA539	Red pipette	1-10 ml	LA270	1ml ± 2.5%; 10ml ± 0.8%
LA540	White pipette	0.2-2 µl	LA288	0.2µl ± 5.0%; 2µl ± 0.5%
LA595	White pipette	2-20 µl	LA288	2 µl ± 2.5%; 20µl ± 1.0%
LA596	White pipette	20-200 µl	LA284	20 µl ± 2.5%; 200µl ± 0.8%
LA597	White pipette	100-1000 µl	LA281	100 µl ± 2.5%; 1000µl ± 0.8%
LA541	White pipette	1-10 ml	LA270	1ml ± 2.5%; 10ml ± 0.8%



Multichannel Micropipette with tip ejector and channel

- These eight and twelve channel pipettes, having channel to channel distance of 9 mm, are ideal for filling *Microtiter* and *Elisa* plates.
- Two-step operation allows you to use the reverse pipetting technique when repeatedly pipetting from the same tip and when dealing with detergent solutions. It also ensures "last drop dispensing".
- Easy adjustment within its volume range can be done simply by turning the plunger.
- Separate streamlined tip ejector ensures safe working with biohazardous materials and prevents accidental tip ejection.
- Precision and efficiency are ensured by equal volume dispensing through all eight and twelve channels at a time.

Table - 9

Code	Description	Vol. capacity	Colour	Compatible Tips	Accuracy
LA542	8-Ch. M P*	0.5-10 µl.	Clear	LA288	0.5 µl ± 2.5%, 10 µl ± 1.0%
LA543	8-Ch. M P*	10-200 µl.	Clear	LA285	10 µl ± 1.0%, 200 µl ± 1.0%
LA544	12-Ch. M P*	0.5-10 µl.	Clear	LA288	0.5 µl ± 2.5%, 10 µl ± 1.0%
LA545	12-Ch. M P*	10-200 µl.	Clear	LA285	10 µl ± 1.0%, 200 µl ± 1.0%
LA546	8-Ch. M P*	0.5-10 µl.	White	LA288	0.5 µl ± 2.5%, 10 µl ± 1.0%
LA547	8-Ch. M P*	10-200 µl.	White	LA285	10 µl ± 1.0%, 200 µl ± 1.0%
LA548	12-Ch. M P*	0.5-10 µl.	White	LA288	0.5 µl ± 2.5%, 10 µl ± 1.0%
LA549	12-Ch. M P*	10-200 µl.	White	LA285	10 µl ± 1.0%, 200 µl ± 1.0%

M P* - Multichannel Pipettes

Clickpet Series

Simple and effective: For rapid and precise repetitive dispensing using standard pipette tips

- **Easy to operate:** Pull plunger to fill and click to dispense
- **Versatile:** Multipurpose for use in biological and DNA assays, microbiological work and combinatorial chemistry

Table - 10

Code No.	Description	Vol. capacity	Colour	Approx. dispenses without refilling	Max. Fill Vol.
LA550	C D [∇] 501	1-5 µl.	White	1 µl (50 dis.); 5 µl (10 dis.)	Approx. 50 µl
LA551	C D [∇] 502	5-25 µl.	White	5 µl (45 dis.); 25 µl (19 dis.)	Approx. 225 µl
LA552	C D [∇] 503	25-100 µl.	White	25 µl (40 dis.); 100 µl (10 dis.)	Approx. 1000 µl
LA553	C D [∇] 504	50-250 µl.	White	50 µl (20 dis.); 250 µl (4 dis.)	Approx. 1150 µl

C D[∇] - Clickpet Dispensers

Pipette stand, For Harmony Pipettes

This stand is suitable for complete range of Harmony pipettes

Table - 11

LA554	E Stand, Pipette stand
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Note:- The terminology "Accuracy" and "Inaccuracy" denote the precision of volume dispensed.

Calibration and Certification

Each micropipette is individually calibrated gravimetrically(1) on an electronic balance, in accordance with International standards. The weight of distilled water dispensed repeatedly by the micropipette either at a single fixed point (in fixed volume pipettes) or

over a range of volumes (in variable volume pipettes) is determined and this is divided by the density of water at room temperature, for which the pipette is designed to measure.

At least ten deliveries at each volume are made with the mean value being reported. This defines the accuracy.

The uncertainty of measurement (reproducibility) is based on the standard deviation (S.D.) and percentage coefficient of variation (%C.V.) determined for individual pipette at the specified volume.

Reference: - (1) Modified from the Biochemistry lab. manual of Dr. David Hall, originally obtained from "An Introduction to Practical Biochemistry" by Plummer (1987) and the instruction sheet for the micropipettes. (Ulster Scientific, Inc.)

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HIMEDIA®

For life is precious



HIMEDIA
TufPette™
A U T O C L A V A B L E

TUFPETTE™ Autoclavable Micropipette

Tufpette is built to last, making no compromise on Quality in product development. The unique design of Tufpette reduces 70% of thumb workload thus, decreasing the repetitive strain injuries and user discomfort as compared to other manual pipettes.

Single Channel Pipettes

Salient features:

- Fully autoclavable pipette body (No disassembly required)
- The only pipette with fixed and variable exchangeable counter mechanism
- Double O-ring for optimal tip seal
- Compatible with all major pipette tip brands
- Lockable volume controller
- Requires 50% fewer turns
- Display is fully visible during hand operations
- Reduced force requirement for aspiration and blowout
- Large pad for ease of the tip ejection
- Robust design includes metal tip base
- Lowest incidence of breakage resulting from accidental dropping or tips mounting

Table - 12

Variable Volume Pipettes

Code	Description	Vol. capacity	Test Vol.	Accuracy (%)	Precision(%)
LA738-1N0	TUFPETTE Autoclavable Micropipette	0.5 to 10 µl	1	2.5	1.80
			5	1.20	0.64
			10	1.00	0.50
LA739-1N0	TUFPETTE Autoclavable Micropipette	2 to 20 µl	2	5.00	1.50
			10	1.20	0.40
			20	1.00	0.30
LA741-1N0	TUFPETTE Autoclavable Micropipette	20 to 200 µl	20	1.50	0.50
			100	0.80	0.20
			200	0.60	0.15
LA742-1N0	TUFPETTE Autoclavable Micropipette	100 to 1000 µl	100	150	0.40
			500	0.80	0.15
			1000	0.80	0.15

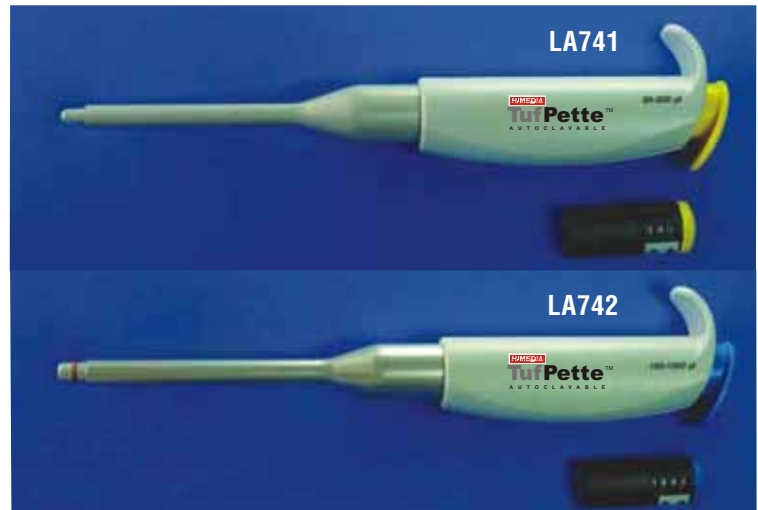


Table - 13

Fixed Volume Pipettes

Code	Description	Vol. capacity	Test Vol.	Accuracy(%)	Precision(%)
LA743-1N0	TUFPETTE Autoclavable Micropipette	1 µl	1 µl	3.10	1.60
LA744-1N0	TUFPETTE Autoclavable Micropipette	10 µl	10 µl	1.00	0.5
LA745-1N0	TUFPETTE Autoclavable Micropipette	20 µl	20 µl	1.00	0.45
LA746-1N0	TUFPETTE Autoclavable Micropipette	50 µl	50 µl	0.90	0.30
LA747-1N0	TUFPETTE Autoclavable Micropipette	200 µl	200 µl	0.6	0.15
LA748-1N0	TUFPETTE Autoclavable Micropipette	1000 µl	1000 µl	0.80	0.15

Universal Tips

High quality low retention tips Specially designed to perfectly fit the tufpette.
Due to special polymers and extremely smooth inside surface, the tip virtually eliminates sample retention and reduces the binding of DNA, RNA and proteins to a minimum.

Salient Features:

- Sterile, high quality low retention tips
- No detectable nucleic acid contamination
- No detectable PCR inhibitors
- No detectable endonucleases
- No detectable endotoxin
- High transparency and purity levels
- Tips packed in dispenser boxes designed to maximize convenience while occupying minimal bench space
- Can be used with all other major pipettes in the market (universal)
- Provide superior pipetting performance thus saving valuable samples and improving accuracy and precision

Barrier Tips

The barrier tip effectively prevents cross contamination due to aerosol formation (such as DNA) and Dangers from toxic, infectious Radioactive or other hazardous material carry over

Table - 14

Code	Description	Vol. capacity	Suitable For
LA749-1x96NO LA749-10x96NO	Barrier Tips	10 µl	TufPette, Gilson / Universal Micropipettes, Finn Micropipettes Eppendorf Micropipettes
LA750-1x96NO LA750-10x96NO	Barrier Tips	20 µl	TufPette, Gilson / Universal Micropipettes, Finn Micropipettes Eppendorf Micropipettes
LA751-1x96NO LA751-10x96NO	Barrier Tips	200 µl	TufPette, Gilson / Universal Micropipettes, Finn Micropipettes Eppendorf Micropipettes

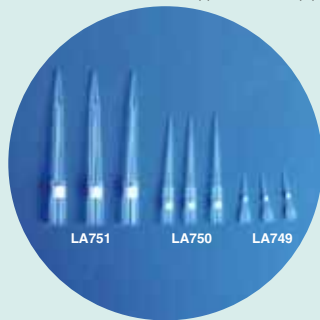


Table - 15

Non-Barrier Tips

Code	Description	Vol. capacity	Suitable For
LA788-1x96NO LA788-10x96NO	Barrier Tips	10 µl	TufPette, Gilson / Universal Micropipettes, Finn Micropipettes Eppendorf Micropipettes
LA789-1x96NO LA789-10x96NO	Barrier Tips	200 µl	TufPette, Gilson / Universal Micropipettes, Finn Micropipettes Eppendorf Micropipettes
LA790-1x96NO LA790-10x96NO	Barrier Tips	1000 µl	TufPette, Gilson / Universal Micropipettes, Finn Micropipettes Eppendorf Micropipettes

Table - 16

Tri-Volume Pipettes

Code	Description	Vol. capacity	Test Vol.	Accuracy(%)	Precision(%)		
LA775-1NO	TUFPETTE Autoclavable Micropipette Tri-Volume	1 µl, 5µl, 100µl	1µl 5µl 100µl	2.50 1.20 1.00	1.80 0.64 0.50		
		LA791-1NO	TUFPETTE Autoclavable Micropipette Tri-Volume	20µl, 50µl, 100µl	20µl 50µl 100µl	2.00 0.9 0.7	0.80 0.30 0.20
				LA776-1NO	TUFPETTE Autoclavable Micropipette Tri-Volume	200µl, 500µl, 1000µl	200µl 500µl 1000µl

Multi Channel Pipettes

*64 channel pipettes available through HiMedia

- Single channel accuracy and precision in a multichannel package.

Salient Features:

- Guarantees single channel accuracy and precision across all channels due to the special design and construction of Tufpette Piston assembly.
- Fully autoclavable body offers easy maintenance
- The unique design with individual replaceable tip base reduces the cost of inevitable repairs.

Table - 17

Code	Description	Vol. capacity	Test Vol.	Accuracy	Precision
LA777-1NO	TUFPETTE Autoclavable Micropipette 8-Channel	0.5 -10µl	1	5.00	3.60
			5	2.32	1.28
			10	2.00	1.00
LA778-1NO	TUFPETTE Autoclavable Micropipette 8-Channel	5 -50µl	5	3.20	1.60
			25	1.60	0.72
			50	1.40	0.60
LA779-1NO	TUFPETTE Autoclavable Micropipette 8-Channel	20 -200µl	20	1.80	0.80
			100	1.44	0.44
			200	1.20	0.40
LA781-1NO	TUFPETTE Autoclavable Micropipette 8-Channel	30 -200µl	30	1.66	0.60
			100	1.44	0.44
			200	1.20	0.40
LA780-1NO	TUFPETTE Autoclavable Micropipette 12-Channel	0.5 -10µl	1	5.00	3.60
			5	2.32	1.28
			10	2.00	1.00
LA782-1NO	TUFPETTE Autoclavable Micropipette 16-Channel	0.5 -10µl	1	5.00	3.60
			5	2.32	1.28
			10	2.00	1.00
LA793-1NO	TUFPETTE Autoclavable Micropipette 16-Channel	0.5 -10µl	1	5.00	3.60
			5	2.32	1.28
			10	2.00	1.00
LA783-1NO	TUFPETTE Autoclavable Micropipette 48-Channel	0.5 -10µl	1	5.00	3.60
			5	2.32	1.28
			10	2.00	1.00
LA784-1NO	TUFPETTE Autoclavable Micropipette 64-Channel	0.5 -10µl	1	5.00	3.60
			5	2.32	1.28
			10	2.00	1.00



LA780
12
Channel



LA781
8
Channel



LA784
64
Channel