



 MICROLIT

General Catalogue

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MICROLITLENTUS™

Bottle Top Dispenser for Hydrofluoric Acid
High-purity Media • Acids & Bases for Trace Analysis

SPRING-
LESS
VALVE



ISO 17025



ISO 9001



ISO 13485



**We are World Leaders in
Bottle Top Dispensing Technology**

MICROLIT LENTUS™ Bottle Top Dispenser (BTD) is a high precision liquid handling instrument engineered with carefully selected and tested materials for use with Hydrofluoric Acid (HF).

MICROLIT LENTUS™ can precisely dispense high-purity media. When high-purity materials are dispensed with the dispenser after appropriate cleaning, they release virtually no metal ions. This makes the dispenser suitable for trace analysis.

Built by our in-house team of product design engineers, it uses Springless Valve™, an award winning technology, and Recirculation Valve for preventing loss of reagent during purging.

MICROLIT LENTUS™ also features two product innovations, EasyKnob™ and FlexiNozzle™ that enhance its ease of use and flexibility.

Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility with HYDROFLUORIC ACID (HF) and other reagents and chemicals to achieve precision and safety with reliability in practical laboratory environments.

**Experience the Power of Precision and Safety
in HYDROFLUORIC ACID DISPENSING.**



Change Volume with EasyKnob™

EasyKnob™ is a specially designed volume adjustment knob that allows 180° rotation for easy and effortless volume setting.



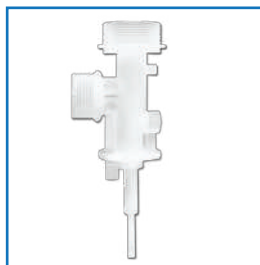
Move Effortlessly with a PTFE Piston

A PTFE Piston with an ETP O-Ring facilitates smooth and effortless movement and ensures high chemical compatibility.



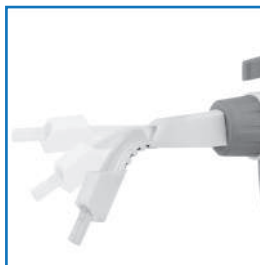
**Re-direct Liquids with
Recirculation Valve**

Recirculation Valve prevents the loss of reagents during purging by re-directing them into the mounted bottle and facilitates bubble free dispensing.



**Operate Jam-free with
Springless Valve™**

MICROLIT LENTUS™ comes with an award-winning technology, Springless Valve™, that facilitates smooth and jam-free functioning.



Dispense Easily with FlexiNozzle™

FlexiNozzle™ is an adjustable delivery nozzle. It offers a high degree of flexibility, facilitating easy dispensing in demanding laboratory conditions.



Work Flexibly with a 360° Adapter

A specially designed Adapter allows 360° rotation, facilitating complete work flexibility.



- **Autoclaving Parameters**
MICROLIT LENTUS™ is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

- **Work with a Comprehensive Volume Range**
MICROLIT LENTUS™ is available in five unique volume ranges:

- a. 0.25-2.5 ml
- b. 0.5-5 ml
- c. 1-10 ml
- d. 2.5-30 ml
- e. 5-60 ml

**Refer to the specifications and ordering information.*

- **Cleaning for Trace Analysis**
Designed to dispense Hydrofluoric Acid, MICROLIT LENTUS™ can also be used for trace analysis. To use the dispenser for trace analysis, it should be thoroughly cleaned. Pure chemicals used for analytical purposes are used for this cleaning procedure.

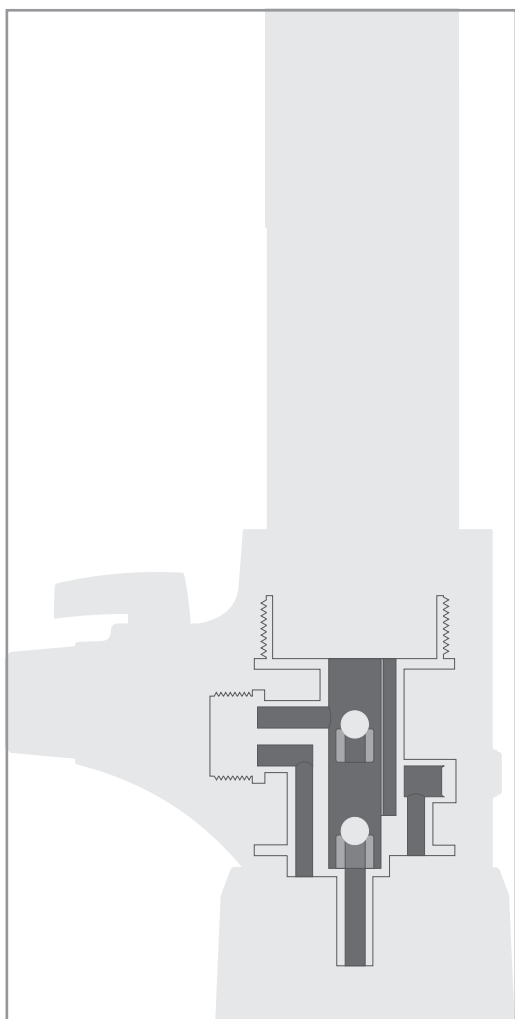
To know the detailed cleaning procedure, refer to the 'Cleaning for Trace Analysis' section of the product operation manual or scan the QR Code below:



Excellent compatibility with Hydrofluoric Acid

Hydrofluoric Acid (HF) is a highly corrosive liquid and standard organic & inorganic reagent dispensers are not designed to be used with it. MICROLIT LENTUS™ is engineered with carefully selected and tested materials for use with Hydrofluoric Acid.

Enhance your Productivity with Springless Valve™ Technology



Traditional Bottle Top Dispensers contain two valves with glass balls:

Inlet Valve - This valve is vertical. It operates under gravity and does not require a spring to hold the glass ball in its position, in order to keep the valve closed.

Outlet Valve - This valve is horizontal. It requires a spring to keep the glass ball in its position, in order to keep the valve closed while aspirating reagents in the barrel. It opens only when a reagent is being dispensed. **The spring housed in the Outlet Valve, poses a lot of problems** including metal reactivity and availability of a surface for deposition of chemicals. This results in a piston jam, thereby compelling the user to repeatedly clean the valve, or replace it altogether.

Our product design engineers have expertly addressed these problems by designing a system where both Inlet and Outlet Valves are vertical and hence do not require any spring. This Springless Valve™ Technology ensures that LENTUS™ offers smooth, jam-free piston movement and also service-free operation. The valve system of MICROLIT LENTUS™ consists of high purity ceramic components to ensure maximum resistance to Hydrofluoric Acid (HF).

Work with a Sophisticated Accessory Range that Enhances Flexibility



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are - 28 mm, 32 mm, 38 mm, 40 mm and 45 mm.



Extendable Tube

A Telescoping Tube, that can be adjusted according to a variety of bottle sizes, is provided as an inside-the-box accessory.

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.

The precision and accuracy of our liquid handling instruments is twice better than industry standards.*

Assured Quality with ISO 8655 Conformed Calibration



MICROLIT LENTUS™ is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Product Excellence

MICROLIT LENTUS™ reflects the design philosophy of our organization, combining the best performance parameters with the best user experience for dispensing Hydrofluoric acid, high - purity media and acids and bases for trace analysis.

MICROLIT LENTUS™ is manufactured as per ISO 9001, ISO 13485 and ISO 17025 standards. The product is CEcertified.

Additionally, Microlit was honoured by CII Industrial Innovation Awards and adjudged a place in the top 25 Most Innovative Companies of 2016.



We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
LNT-HF-2.5	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005
LNT-HF-5	0.5-5 ml	0.1 ml	0.6	0.030	0.2	0.010
LNT-HF-10	1-10 ml	0.2 ml	0.6	0.060	0.2	0.020
LNT-HF-30	2.5-30 ml	0.5 ml	0.6	0.180	0.2	0.060
LNT-HF-60	5-60 ml	1.0 ml	0.6	0.360	0.2	0.120

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-5.



Your Satisfaction is Our Priority

MICROLIT products follow GMP norms and are manufactured under comprehensive QA (Quality Assurance) and QC (Quality Control). However, if you are dissatisfied with the operation of any of our products, get in touch with us or call your nearest MICROLIT dealer for a free replacement.

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MICROLITE E-BURETTE

Motor Operated Burette with 3 Calibrated Pre-set Speeds



Experience the Power of Precision in Your Daily Laboratory Routine

Leverage the Sophistication of Ergonomics and Modern Technology

MICROLIT E-BURETTE is a state-of-the-art Motor Operated Burette with sophisticated features and functionality.

Built by our in-house team of product design engineers, it offers a host of features like Motor Controlled Piston Movement, a touch screen enabled Control Panel with an intuitive graphical user interface (GUI), and 3 Calibrated Pre-Set Speeds to perform highly accurate titrations.

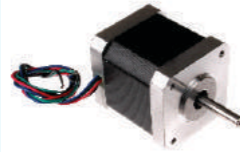
Designed with ergonomics and intuitive handling in mind, MICROLIT E-BURETTE is widely used in industries like Pharmaceutical, Environmental Monitoring and Food & Beverages.

It exhibits excellent chemical compatibility and helps in performing precise titrations with reliability in practical laboratory environments.



Work Accurately with 3 Calibrated Pre-set Speeds

MICROLIT E-BURETTE can be flexibly operated at 3 Calibrated Pre-set Speeds, including dropwise dispensing, to achieve accurate end points.



Operate Smoothly with Motor Control

Motor Controlled Piston Movement facilitates correct and comfortable titrations. It eliminates the errors associated with manual wheel controlled piston movement.



Re-direct Reagents with Recirculation Mode

Recirculation Mode prevents the loss of reagents during purging by re-directing them into the mounted bottle and facilitates bubble-free dispensing.



Dispense Easily with Adjustable Nozzle

The adjustable nozzle offers a high degree of flexibility in both the horizontal and vertical directions, facilitating easy dispensing in demanding laboratory conditions.



Perform Quick Titrations with TFT Touchscreen

A user-friendly TFT Touchscreen guides quick and accurate titrations and displays numeric data up to the second decimal. Keep the Stylus pressed against it to perform dispensing and lift it to stop at once.



Enhanced Functionality with a Robust Control Panel

The instrument comes with a powerful Control Panel. Use it to perform functions like automatically re-fill without changing the reading, perform a zero reset (via Tare), switch the instrument off, etc.



- **Choose from Three Unique Capacities**
MICROLIT E-BURETTE is available in three unique capacities - 10 ml, 25 ml and 50 ml.
**Refer to the specifications and ordering information.*

- **Save Results on the Go**
The instrument can store up to 20 results in its memory. It also offers the option to connect to a computer and save the readings on a software for future reference.

- **Micro USB Cable**
The instrument can be connected to a computer with the help of a micro USB cable which is included in the Burette kit.

MICROLIT E-BURETTE's Control Panel uses rechargeable, long lasting and replaceable batteries.

Achieve Remarkably Accurate and Better Results than CLASS-A Glass Burettes

1. MICROLIT E-BURETTE Offers 3 Pre-set Speeds for Dispensing

The instrument comes with 3 individually calibrated Pre-set Speeds, including dropwise dispensing.

- **High Speed Dispensing:** Dispense at 2.2 ml/sec.
- **Low Speed Dispensing:** Dispense at 0.75 ml/sec.
- **Dropwise Dispensing:** Dispense at 0.025 ml/sec.

2. MICROLIT E-BURETTE Offers Motor Controlled Piston Movement

In conventional Digital Burettes, dispensing is done 'manually' with the help of a rotating wheel, whose speed of rotation is not fixed and varies from user to user. Any abrupt changes in the speed may result in inaccurate and imprecise results.

The Motor Controlled Piston Movement of MICROLIT E-BURETTE, at 3 Pre-set Speeds, rules out the effort invested in manual wheel operation and hence, any inconsistencies arising due to the variations in its speed.

Work with a Modern Accessory Range that Enhances User Experience



Stylus

MICROLIT E-BURETTE comes with a sleek hand-held Stylus that assists in performing touch operations on the control panel with ease.



Amber Coloured Window

The instrument's transparent acrylic window can be swapped with an amber coloured window for use with chemicals/reagents that are sensitive to light.



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are - 28 mm, 32 mm, 38 mm, 40 mm and 45 mm.



Telescoping Inlet Tube

A Telescoping Tube, that can be adjusted in length according to a variety of bottle sizes, is provided as an inside-the-box accessory.

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.

The precision and accuracy of our liquid handling instruments is twice better than industry standards.*

Assured Quality with ISO 8655 Conformation and GLP Compliance

MICROLIT E-BURETTE conforms to ISO 8655 standards and is GLP compliant.

Each model is individually calibrated and supplied with a calibration certificate placed inside the product package.

The instrument can also be easily calibrated electronically within a laboratory, without the help of an external calibration tool.

Award-winning Design and Product Excellence



MICROLIT E-BURETTE reflects the design philosophy of our organization, combining the best performance parameters with the best user experience.

It is recognised by India Design Mark as a product that exhibits Good Design. Additionally, we were honoured by CII Industrial Innovation Awards and adjudged a place in the top 25 Most Innovative Companies of 2016.

We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Capacity (ml)	Increment	Accuracy		CV	
			±%	±µl	±%	±µl
TI-10	10	5 µl	0.10	10	0.050	5
TI-25	25	10 µl	0.07	18	0.024	6
TI-50	50	10 µl	0.05	25	0.020	10

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-3.



OUR REACH



YOUR SATISFACTION IS OUR PRIORITY

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Microlit LATAM

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MICROLIT PRO TIP™ | Micropipette Tips & Tip Boxes



Experience Pipetting Precision with Microlit's ProTip™

Instructions for Use

Before using the tips, familiarize yourself with the operating manual of the relevant instrument.

Check the pack and contents carefully for any damage.

For filter tips, check whether there is a dual-filter in every tip and whether it is correctly positioned, undamaged and not twisted. If you detect any fault, do not use the tip.

The tips should always be emptied into a container so that no fluid sprays into the environment. After use, dispose of tips in accordance with relevant guidelines.

Tips should not be filled with fluids which attack Polypropylene (PP) or in the case of filter tips Polyethylene (PE) also.

If you are in any doubt as to the suitability of your product for its intended use or as to the reagent, you will find our contact details on the back page.



Manufacturer Recommended
Excellent compatibility with Microlit RBO & Microlit NERO - Assured accuracy and precision.



Exceptionally Clean Release
Considerably more hydrophobic than standard tips enabling even viscous fluids to be dispensed completely.



Certified free release
Free of detectable RNase, DNase, DNA, PCR inhibitors and tested non-pyrogenic.



Comprehensive Range
Both MICRO (up to 1000ul) and MACRO (up to 10ml) in standard (non filter, non sterile) and filtered varieties.



Flexible Packaging
Available in racked, reloads and bulk packaging.

SPECIFICATIONS & ORDERING INFORMATION

Product Description	Capacity	Pack/Box	Model No.
Micropipette Tip Packets (The tips are DNase, RNase and Pyrogen Free)	Upto 10 µl	100 tips/pack	MT/10/100
	Upto 200 µl	1000 tips/pack	MT/200/1000
	Upto 300 µl	1000 tips/pack	MT/300/1000
	Upto 1000 µl	1000 tips/pack	MT/1000/1000
	Upto 5000 µl	100 tips/pack	MT/5000/100
	Upto 10000 µl	100 tips/pack	MT/10000/100
Micropipette Tip Boxes (The tips are DNase, RNase and Pyrogen Free)	Upto 10 µl	96 tips/box	TPB-MT/10/96
	Upto 200 µl	96 tips/box	TPB-MT/200/96
	Upto 300 µl	96 tips/box	TPB-MT/300/96
	Upto 1000 µl	96 tips/box	TPB-MT/1000/96
	Upto 5000 µl	18 tips/box	TPB-MT/5000/18
	Upto 10000 µl	18 tips/box	TPB-MT/10000/18
Micropipette Filter Tip Packets (The filter tips are DNase, RNase and Pyrogen Free)	Upto 10 µl	100 tips/pack	MFT/10/100
	Upto 20 µl	100 tips/pack	MFT/20/100
	Upto 100 µl	100 tips/pack	MFT/100/1000
	Upto 200 µl	1000 tips/pack	MFT/200/1000
	Upto 300 µl	1000 tips/pack	MFT/300/1000
	Upto 1000 µl	1000 tips/pack	MFT/1000/1000
Micropipette Filter Tip Boxes (The filter tips are sterile, DNase, RNase and Pyrogen Free)	Upto 10 µl	96 tips/box	TPB-MFT/10/96
	Upto 20 µl	96 tips/box	TPB-MFT/20/96
	Upto 100 µl	96 tips/box	TPB-MFT/100/96
	Upto 200 µl	96 tips/box	TPB-MFT/200/96
	Upto 300 µl	96 tips/box	TPB-MFT/300/96
	Upto 1000 µl	100 tips/box	TPB-MFT/1000/100



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Assured Quality with ISO 8655 Conformed Calibration



MICROLIT BEATUS is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Award-winning Design and Product Excellence



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It is recognised by India Design Mark as a product that exhibits Good Design. Additionally, we were honoured by CII Industrial Innovation Awards and adjudged a place in the top 25 Most Innovative Companies of 2016.

We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
BEAT-2.5	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005
BEAT-5	0.5-5 ml	0.1 ml	0.6	0.030	0.2	0.010
BEAT-10	1-10 ml	0.2 ml	0.6	0.060	0.2	0.020
BEAT-30	2.5-30 ml	0.5 ml	0.6	0.180	0.2	0.060
BEAT-60	5-60 ml	1.0 ml	0.6	0.360	0.2	0.120
BEAT-100	10-100 ml	2.0 ml	0.6	0.600	0.2	0.200

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-5.

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Bottle Top Dispenser with Recirculation Valve
and Springless Valve™ Technology

MICROLIT BEATUS



**We are World Leaders in
Bottle Top Dispensing Technology**


MICROLIT BEATUS is a Bottle Top Dispenser (BTD) that offers a sophisticated blend of features and functionality.

Built by our in-house team of product design engineers, it uses Springless Valve™, an award winning technology, and Recirculation Valve for preventing loss of reagent during purging.

MICROLIT BEATUS also features two product innovations, EasyKnob™ and FlexiNozzle™ that enhance its ease of use and flexibility.

Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility and helps achieve precision with reliability in practical laboratory environments.

**Experience the Power of Precision
in Your Daily Laboratory Routine**



Change Volume with EasyKnob™

EasyKnob™ is a specially designed volume adjustment knob that allows 180° rotation for easy and effortless volume setting.




Move Effortlessly with a PTFE Piston

A PTFE Piston with an ETP O-Ring facilitates smooth and effortless movement and ensures high chemical compatibility.



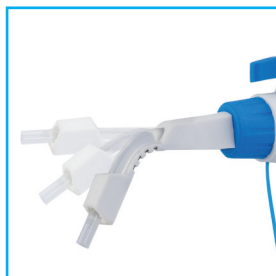
Re-direct Liquids with Recirculation Valve

Recirculation Valve prevents the loss of reagents during purging by re-directing them into the mounted bottle and facilitates bubble free dispensing.



Operate Jam-free with Springless Valve™

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Dispense Easily with FlexiNozzle™

FlexiNozzle™ is an adjustable delivery nozzle. It offers a high degree of flexibility, facilitating easy dispensing in demanding laboratory conditions.



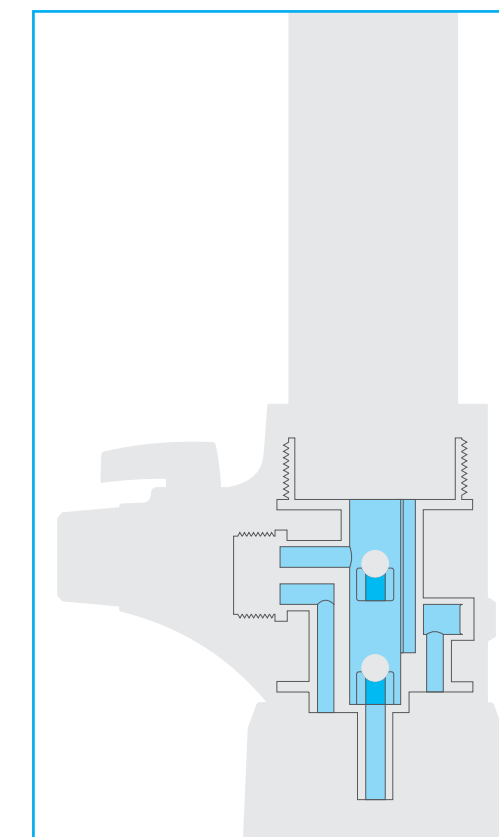
Work Flexibly with a 360° Adapter

A specially designed Adapter allows 360° rotation, facilitating complete work flexibility.



- **Autoclaving Parameters**
MICROLIT BEATUS is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.
- **Work with a Comprehensive Volume Range**
MICROLIT BEATUS is available in six unique volume ranges:
1. 0.25-2.5 ml
2. 0.5-5 ml
3. 1-10 ml
4. 2.5-30 ml
5. 5-60 ml
6. 10-100 ml
**Refer to the specifications and ordering information.*

Enhance your Productivity with Springless Valve™ Technology



Traditional Bottle Top Dispensers contain two valves with glass balls:

Inlet Valve:
This valve is vertical. It operates under gravity and does not require a spring to hold the glass ball in its position, in order to keep the valve closed.

Outlet Valve:
This valve is horizontal. It requires a spring to keep the glass ball in its position, in order to keep the valve closed while aspirating reagents in the barrel. It opens only when a reagent is being dispensed.

The spring, housed in the Outlet Valve, poses a lot of problems:

- The user has to procure different kinds of Bottle Top Dispensers for different applications owing to spring metal reactivity. This proves to be an expensive proposition.
- Apart from this, the spring also offers a surface for deposition of chemicals. This results in a piston jam, thereby compelling the user to repeatedly clean the valve, or replace it altogether.

Our product design engineers have expertly addressed these problems by designing a system where both Inlet and Outlet Valves are vertical and hence do not require any spring. This Springless Valve™ Technology makes MICROLIT BEATUS a Universal Bottle Top Dispenser that can be conveniently used with both organic and inorganic reagents. It not only offers smooth, jam-free piston movement but also ensures service-free operation.

Work with a Sophisticated Accessory Range that Enhances Flexibility



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are - 28 mm, 32 mm, 36 mm, 40 mm and 45 mm.



Extendable Tube

A Telescoping Tube, that can be adjusted according to a variety of bottle sizes, is provided as an inside-the-box accessory.

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Assured Quality with ISO 8655 Conformed Calibration



MICROLIT SCITUS is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Our Product Excellence



MICROLIT SCITUS reflects the design philosophy of our organization, combining the best performance parameters with the best user experience.

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SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
SCI-2.5	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005
SCI-5	0.5-5 ml	0.1 ml	0.6	0.030	0.2	0.010
SCI-10	1-10 ml	0.2 ml	0.6	0.060	0.2	0.020
SCI-30	2.5-30 ml	0.5 ml	0.6	0.180	0.2	0.060
SCI-60	5-60 ml	1.0 ml	0.6	0.360	0.2	0.120
SCI-100	10-100 ml	2.0 ml	0.6	0.600	0.2	0.200

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Bottle Top Dispenser with
Springless Valve™ Technology

MICROLIT SCITUS



**We are World Leaders in
Bottle Top Dispensing Technology**


MICROLIT SCITUS is a Bottle Top Dispenser (BTD) that offers a simple, cost-effective blend of sophisticated features and functionality.

Built by our in-house team of product design engineers, it uses Springless Valve™, an award winning technology, that ensures smooth functioning.

MICROLIT SCITUS also features two product innovations, EasyKnob™ and FlexiNozzle™ that enhance its ease of use and flexibility.

Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility and helps achieve precision with reliability in practical laboratory environments.

**Experience the Power of Precision
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Change Volume with EasyKnob™

EasyKnob™ is a specially designed volume adjustment knob that allows 180° rotation for easy and effortless volume setting.




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A PTFE Piston with an ETP O-Ring facilitates smooth and effortless movement and ensures high chemical compatibility.




Operate Jam-free with Springless Valve™

MICROLIT SCITUS comes with an award-winning technology, Springless Valve™, that facilitates smooth and jam-free functioning.



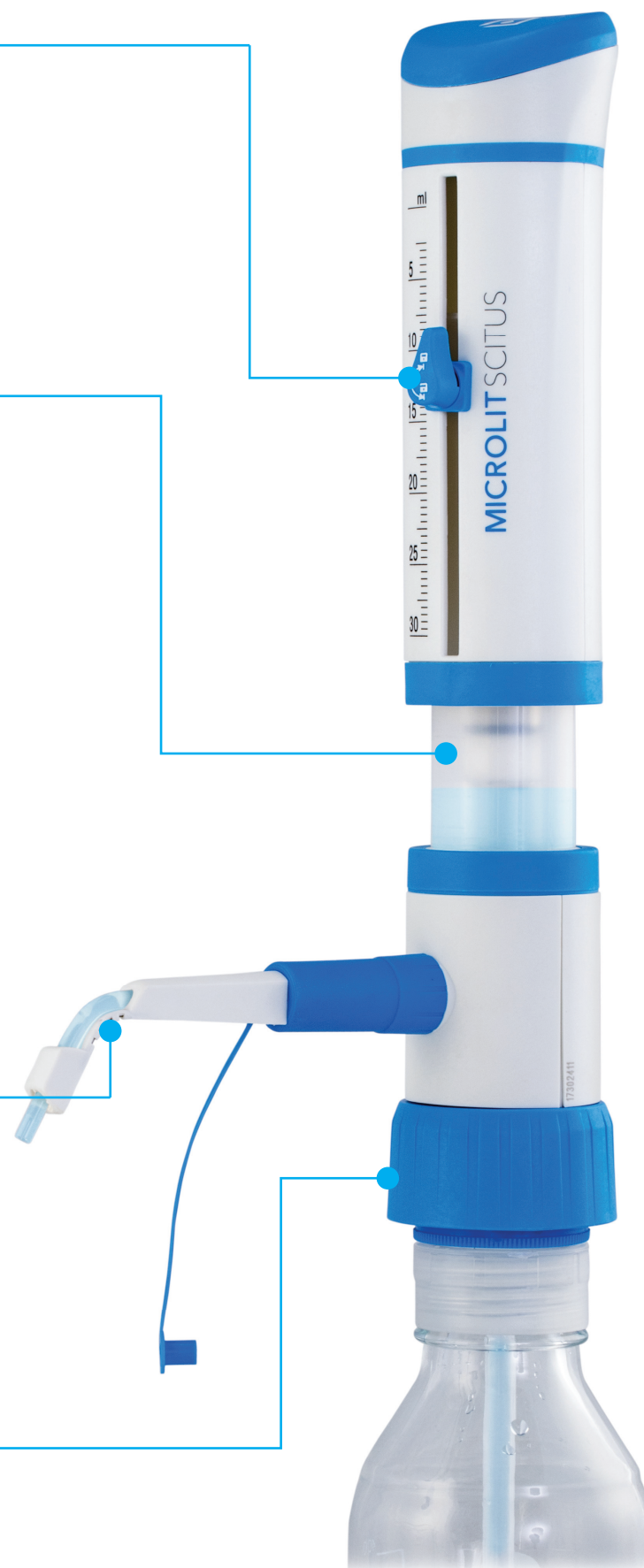
Dispense Easily with FlexiNozzle™

FlexiNozzle™ is an adjustable delivery nozzle. It offers a high degree of flexibility, facilitating easy dispensing in demanding laboratory conditions.



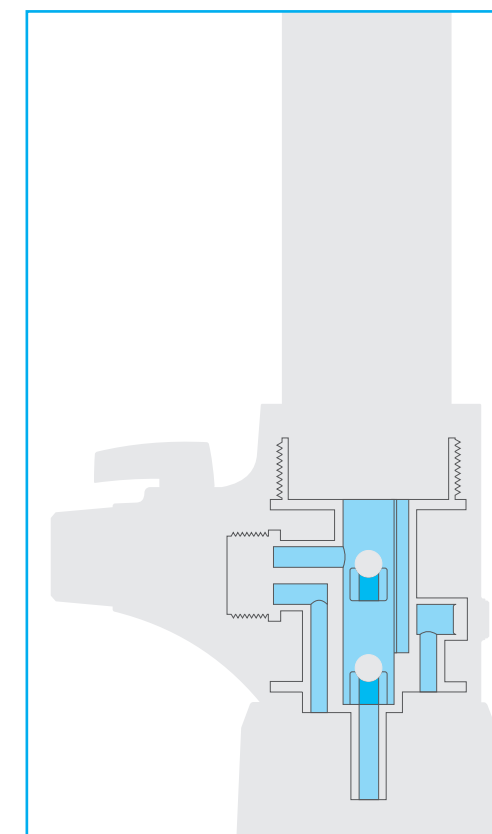
Work Flexibly with a 360° Adapter

A specially designed Adapter allows 360° rotation, facilitating complete work flexibility.



- **Autoclaving Parameters**
MICROLIT SCITUS is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.
- **Work with a Comprehensive Volume Range**
MICROLIT SCITUS is available in six unique volume ranges:
1. 0.25-2.5 ml
2. 0.5-5 ml
3. 1-10 ml
4. 2.5-30 ml
5. 5-60 ml
6. 10-100 ml
**Refer to the specifications and ordering information.*

Enhance your Productivity with Springless Valve™ Technology



Traditional Bottle Top Dispensers contain two valves with glass balls:

Inlet Valve:
This valve is vertical. It operates under gravity and does not require a spring to hold the glass ball in its position, in order to keep the valve closed.

Outlet Valve:
This valve is horizontal. It requires a spring to keep the glass ball in its position, in order to keep the valve closed while aspirating reagents in the barrel. It opens only when a reagent is being dispensed.

The spring, housed in the Outlet Valve, poses a lot of problems:

- A user has to procure different kinds of Bottle Top Dispensers for different applications owing to spring metal reactivity. This proves to be an expensive proposition.
- Apart from this, the spring also offers a surface for deposition of chemicals. This results in a piston jam, thereby compelling the user to repeatedly clean the valve, or replace it altogether.

Our product design engineers have expertly addressed these problems by designing a system where both Inlet and Outlet Valves are vertical and hence do not require any spring. This Springless Valve™ Technology makes MICROLIT SCITUS a Universal Bottle Top Dispenser that can be conveniently used with both organic and inorganic reagents. It not only offers smooth, jam-free piston movement but also ensures service-free operation.

Work with a Sophisticated Accessory Range that Enhances Flexibility



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are - 28 mm, 32 mm, 36 mm, 40 mm and 45 mm.



Extendable Tube

A Telescoping Tube, that can be adjusted according to a variety of bottle sizes, is provided as an inside-the-box accessory.

**ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.*

Assured Quality with ISO 8655 Conformed Calibration



MICROLIT ULTIMUS is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Award-winning Design and Product Excellence



EP15166828.2 (Pending)



14715346



E-2/549/2015/DEL (Pending)

MICROLIT ULTIMUS reflects the design philosophy of our organization, combining the best performance parameters with the best user experience.

It is recognised by India Design Mark as a product that exhibits Good Design.

Additionally, we were **honoured by CII Industrial Innovation Awards** and adjudged a place in the **top 25 Most Innovative Companies of 2016**.

We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
ULT-2.5	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005
ULT-5	0.5-5 ml	0.1 ml	0.6	0.030	0.2	0.010
ULT-10	1-10 ml	0.2 ml	0.6	0.060	0.2	0.020
ULT-30	2.5-30 ml	0.5 ml	0.6	0.180	0.2	0.060
ULT-60	5-60 ml	1.0 ml	0.6	0.360	0.2	0.120
ULT-100	10-100 ml	2.0 ml	0.6	0.600	0.2	0.200

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-5.

MICROLIT

Your Satisfaction is Our Priority

MICROLIT products follow GMP norms and are manufactured under comprehensive QA (Quality Assurance) and QC (Quality Control). However, if you are dissatisfied with the operation of any of our products, get in touch with us or call your nearest MICROLIT dealer for a free replacement.

Designed and Manufactured by MICROLIT

629, Pakramau, Kursi Road, Lucknow - 226026, UP, India

Call at: +91-9919963376, +91-9839014252

For queries: info@microlit.com

For feedback: customercare@microlit.com

www.microlit.com

MICROLIT ULTIMUS

Bottle Top Dispenser with
Dual Inlet™ Technology

DUAL
INLET



**We are World Leaders in
Bottle Top Dispensing Technology**

MICROLIT ULTIMUS is a Bottle Top Dispenser (BTD) that offers a sophisticated blend of features and functionality.

Built by our in-house team of product design engineers, it uses Dual Inlet™, an award-winning technology patented in India, the EU and the US.

It offers 4 liquid handling modes – rinsing, dilution, refilling, purging – without dismounting the dispenser. MICROLIT ULTIMUS also features two product innovations, EasyKnob™ and FlexiNozzle™ that enhance its ease of use and flexibility.

Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility and helps achieve precision with reliability in practical laboratory environments.

**Experience the Power of Precision
in Your Daily Laboratory Routine**



**Change Volume
with EasyKnob™**

EasyKnob™ is a specially designed volume adjustment knob that allows 180° rotation for easy and effortless volume setting.



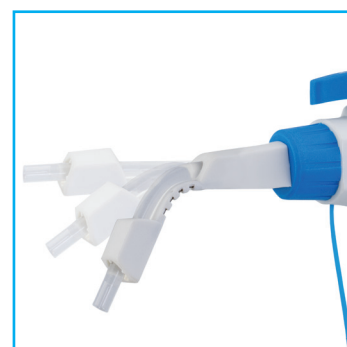
**Move Effortlessly with
a PTFE Piston**

A PTFE Piston with an ETP O-Ring facilitates smooth and effortless movement and ensures high chemical compatibility.



**Forget Dismounting
with Dual Inlet™**

MICROLIT ULTIMUS is equipped with an award-winning patented technology, Dual Inlet™, that enables 4 liquid handling modes without dismounting the dispenser.



**Dispense Easily with
FlexiNozzle™**

FlexiNozzle™ is an adjustable delivery nozzle. It offers a high degree of flexibility, facilitating easy dispensing in demanding laboratory conditions.



**Work Flexibly with
a 360° Adapter**

A specially designed Adapter allows 360° rotation, facilitating complete work flexibility.

- **Autoclaving Parameters**
MICROLIT ULTIMUS is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.
- **Work with a Comprehensive Volume Range**
MICROLIT ULTIMUS is available in six unique volume ranges:
1. 0.25-2.5 ml
2. 0.5-5 ml
3. 1-10 ml
4. 2.5-30 ml
5. 5-60 ml
6. 10-100 ml
**Refer to the specifications and ordering information.*



Enhance Your Productivity with Four Modes of Operation



1 Standard Dispensing
Knob A - Open
Knob B - Closed

In this mode, the dispenser dispenses the liquid normally into the receiver from the bottle it is mounted on.



2 Purging
Knob A - Closed
Knob B - Closed

In this mode, the liquid is re-circulated into the same bottle on which the dispenser is mounted. This process removes the air from the dispenser, without wasting any reagent.



3 Dilution/Rinsing/Second Liquid Dispensing
Knob A - Open
Knob B - Open

In this mode, the liquid from a second source can be dispensed into the receiver. The second liquid can be distilled water, thus allowing the user to rinse the instrument without dismounting it or dilute the reagent within the receiver.



4 Bottle Refilling
Knob A - Closed
Knob B - Open

In this mode, the liquid from a second source can be used to refill the bottle, without dismounting the dispenser.

Work with a Sophisticated Accessory Range that Enhances Flexibility



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are - 28 mm, 32 mm, 36 mm, 40 mm and 45 mm.



Reservoir Covers

For the second bottle, an additional set of four reservoir covers are provided in the sizes, 32 mm, 36 mm, 40 mm and 45 mm.



Extendable Tube

MICROLIT ULTIMUS comes with a Telescoping Tube, that can be adjusted according to a variety of bottle sizes.

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.



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MICROLIT FAVEO | Carousel Stand for 6 Micropipettes



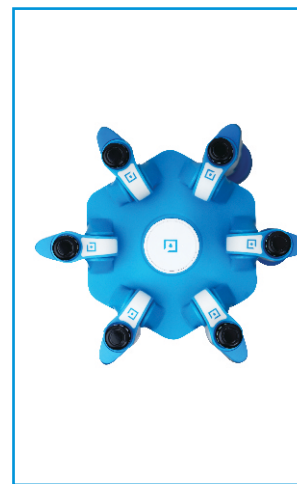
Microlit Faveo- Carousel Stand for six micropipettes is a cost effective blend of features and functionality.

Built by our in-house team of product design engineers, Microlit Faveo can hold both single channel and multichannel micropipettes.

The sleek design of the stand allows the pipettes to be conveniently stored in style. The rotating nature of this carousel stand allows the user to place or remove the pipettes easily from the stand. This helps the user in accessing the desired pipette with much ease.

The stable base of the stand assists in single handed operation. The sturdy design ensures safe keeping of the pipettes in a quite effective manner.

Made of polypropylene, this stand can be easily cleaned with soap and water, or common laboratory disinfectants.



Stand for 6 Micropipettes
Microlit Faveo is designed to hold up to 6 single channel micropipettes.

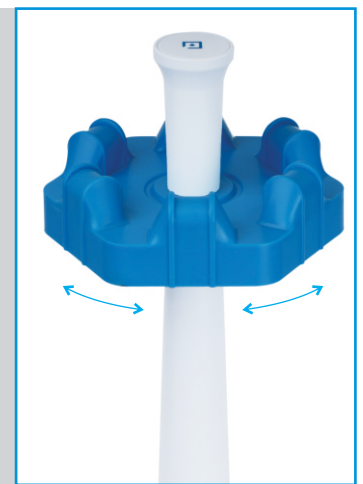


Can Store Both Single Channel and Multi Channel Micropipettes
This stand can hold up to 3 multichannel micropipettes, 6 single channel micropipettes or a combination of 3 single channel and 3 multichannel micropipettes.

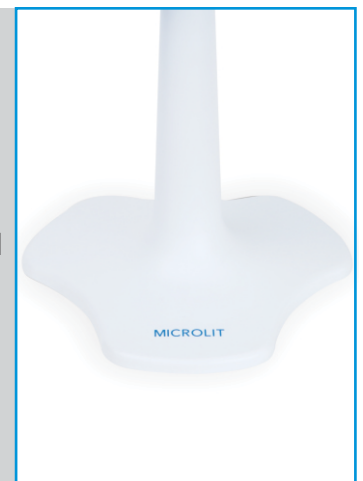


Portable & Light Weighted
Due to its light weight and small size, this carousel stand can be easily placed in a laboratory without occupying much space.

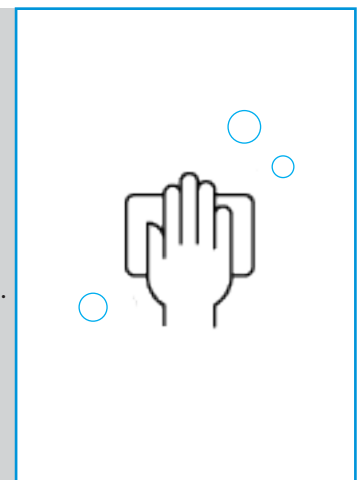
360° Rotating Head
The rotating nature of Microlit Faveo allows the user to place or remove the pipettes easily from the stand.



Stable Base
The stable base of this carousel stand assists in single handed operation.



Easy to Clean
Microlit Faveo can be cleaned with soap and water, or common laboratory disinfectants.



Specifications & Ordering Information:

- Model No. : FVO-1
- Dimensions : Height: 323 mm, Base Dia: 195 mm
- Material : Polypropylene
- Autoclavability : Not Autoclavable
- Color : White and Blue

Our Product Excellence



Our products reflect the design philosophy of our organization, combining the best performance parameters with the best user experience.

We were honoured by **CII Industrial Innovation Awards** and adjudged a place in the **top 25 Most Innovative Companies of 2016**.

We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION



Model : NE-GG-220V
Grey Body
Grey Collet and Plunger



Model : NE-GR-220V
Grey Body
Red Collet and Plunger



Model : NE-GB-220V
Grey Body
Blue Collet and Plunger



Model : NE-GV-220V
Grey Body
Violet Collet and Plunger

EXPERIENCE PRECISION

MICROLIT

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Electronic Pipette Filling Instrument
with Single Knob Dual Dispensing Mode

MICROLITEASYFILL



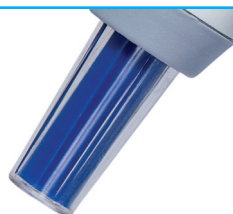
Perform Sensitive Laboratory Operations with Assurance

MICROLIT EASYFILL, an electronic pipette filling instrument, is a simple yet powerful blend of sophisticated features and functionality.

Designed by our in-house team of product design engineers with ergonomics and intuitive handling in mind, it offers Single Knob Dual Dispensing Mode.


MICROLIT EASYFILL helps in performing sensitive operations with high precision, accuracy and reliability in practical laboratory environments.

Experience the Power of Precision in Your Daily Laboratory Routine




Hold Pipettes Firmly with a Universal Silicon Adapter

MICROLIT EASYFILL has a Universal Silicon Adapter, with internal knurling, that can easily accommodate glass/plastic pipettes from 1 ml to 100 ml and hold them firmly during liquid handling operations.




Forget Contamination with In-line Membrane Filter

A PTFE Hydrophobic In-line Membrane Filter (0.2 microns) prevents aerosol contamination and accidental liquid entry.



Know the Battery Status in One Go

Red LED flash denotes 'low battery' and green LED flash denotes 'charging'.




Switch Modes with a Single Knob

The instrument offers Dual Dispensing Mode with the help of a Single Knob.


For Gravity Mode : Press the knob halfway.

For Blow-out Mode : Press the knob fully.



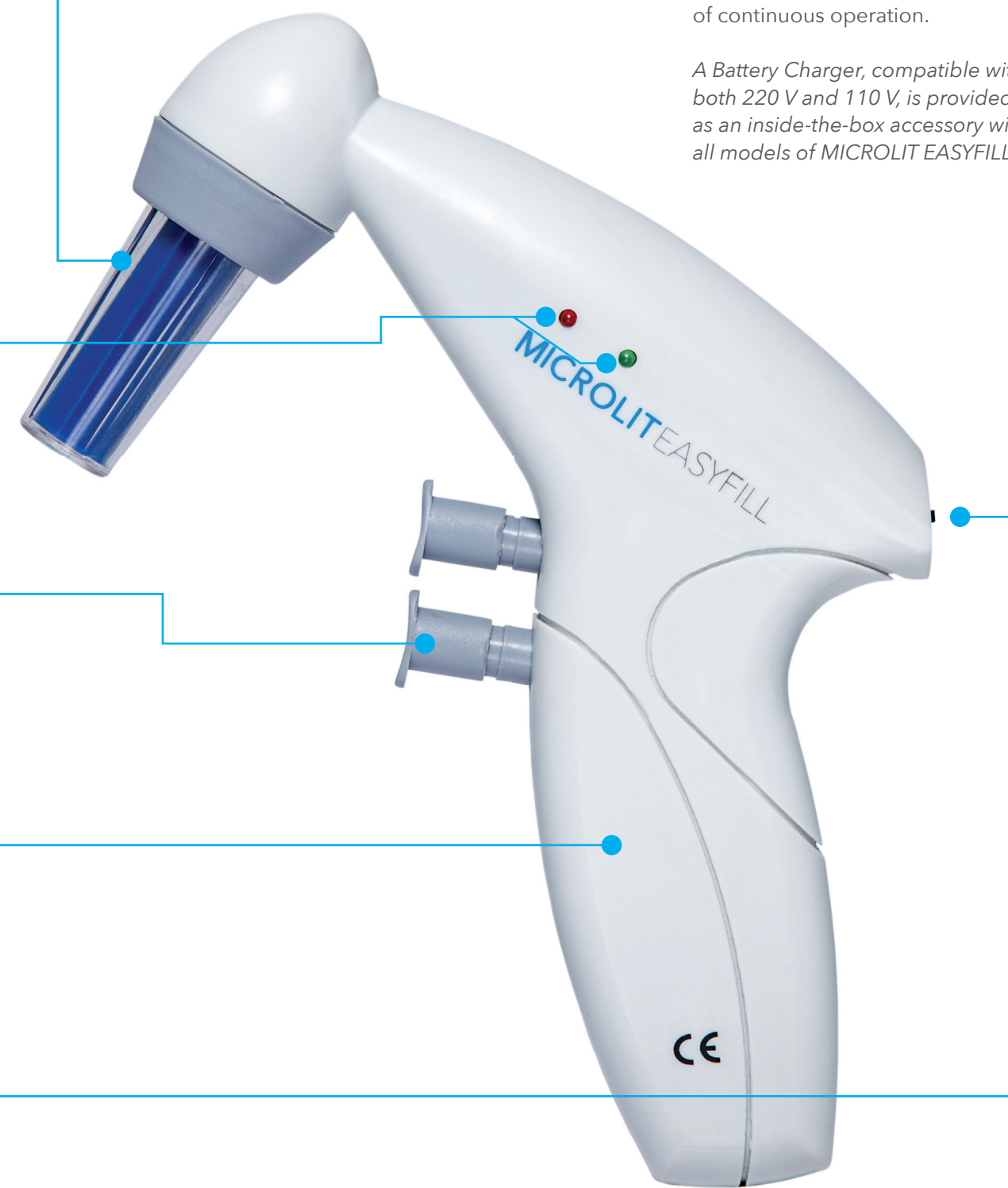
Work with Ease

MICROLIT EASYFILL has a comfortable grip and exhibits high ease of use.



Adjust the Pump Speed During Liquid Handling

The instrument offers continuous pump speed adjustment during liquid handling operations.

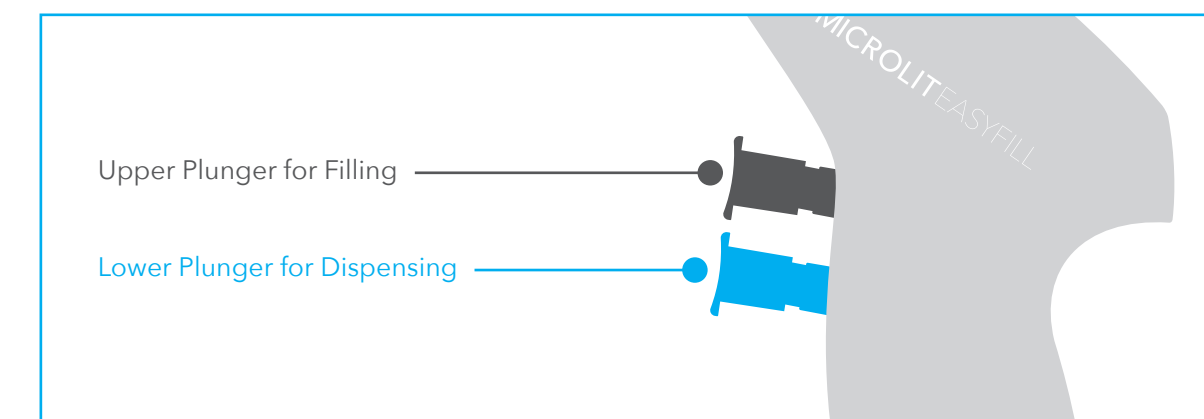


Autoclaving Parameters
The Collet Assembly and the 0.2 microns In-line Membrane Filter, contained within it, are fully autoclavable at 121 °C and 15 psi for a duration of 10-15 minutes.

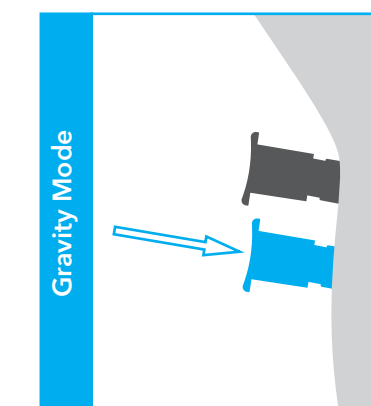
Operate Non-Stop for 8 Hours
MICROLIT EASYFILL uses Ni-MH 3.6 V rechargeable batteries in combination with low power consumption circuit and vacuum pressure/pump, facilitating 8 hours of continuous operation.

A Battery Charger, compatible with both 220 V and 110 V, is provided as an inside-the-box accessory with all models of MICROLIT EASYFILL.

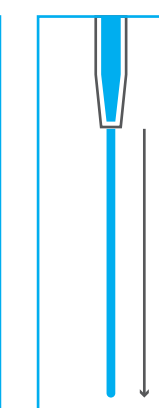
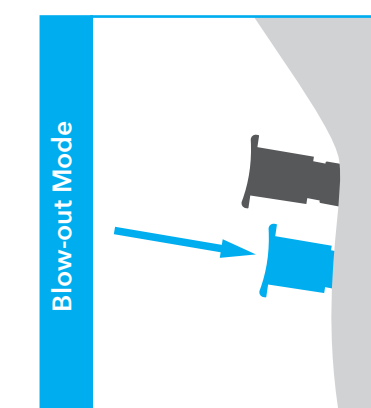
Switch Modes with a Single Knob



The instrument offers Dual Dispensing Mode with the help of a Single Knob.



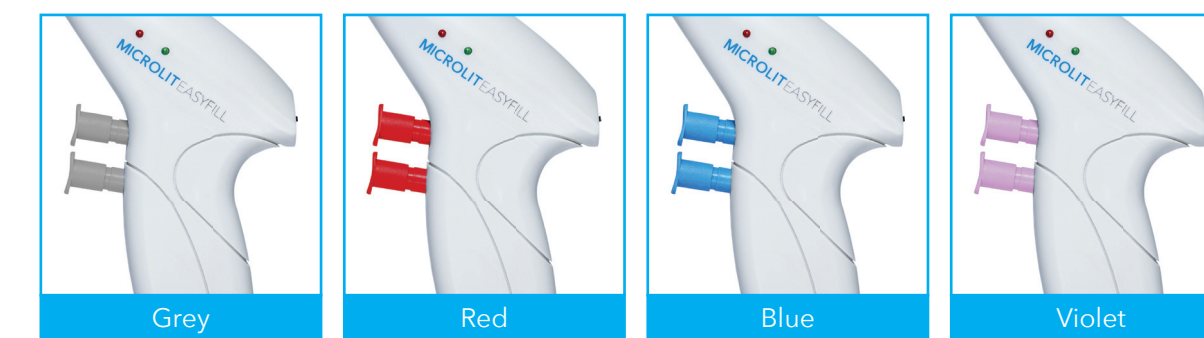
For Gravity Mode - Press the knob halfway.
This mode does not engage the motor and allows the user to dispense dropwise and slowly.



For Blow-out Mode - Press the knob fully.
This mode engages the motor and dispenses the reagent with maximum speed.

Available in Four Colour Combinations

The instrument is available in four colour combinations.
*Refer to the specifications and ordering information.

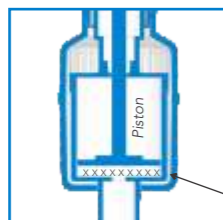


Single Channel Variable and Fixed Volume Micropipettes

The instrument is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

Experience the Power of Precision During Routine Laboratory Operations

MICROLIT NERO is a range of Ergonomic micropipettes that ensure high precision in practical lab environments with μ Air™ technology. Built by our in-house team of product design engineers, it is available in Single Channel Fixed and Variable Volume models.



Achieve Precision with μ Air™ technology

The design of Microlit NERO ensures minimum dead air space between the piston and the liquid in the tip. This reduces air compression and enables the user to achieve precision in practical lab conditions

Minimum dead air space



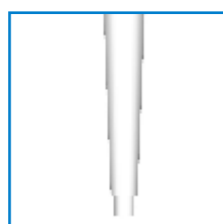
Store Safely

Microlit NERO has a specially designed carousel stand (optional) and a Holder that ensures easy, efficient and safe storage in the lab



Adjust volume with perfection

A distinct click at every volume change ensures perfect volume setting and prevents any accidental volume change



Use Various Tips with Universal Tipcone

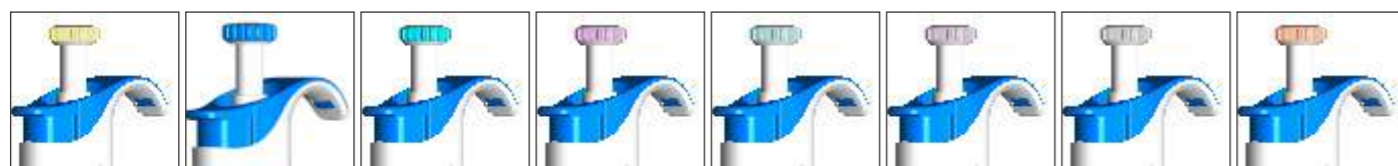
Our tip-cone is designed to be compatible with most internationally accepted tips, which enhances the compatibility of the instrument in the industry



Eject Tips Easily with our Tip Ejector

An in-built tip ejector is designed to eject tips with optimal force

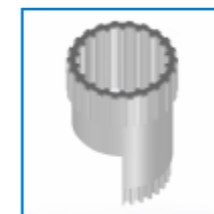
Colour Coding for Easy Identification



Colour-coding for different capacities facilitates easy identification during daily laboratory routine.

Assured Quality with ISO 8655 Conformed Calibration

Calibration



MICROLIT NERO is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards and a Calibration Certificate is included in the product package.

Calibrate efficiently with UniCal™ technology

We have introduced a unique calibration mechanism/tool which allows quick in-lab calibration in a single operation WITHOUT disengaging the digits from the plunger mechanism

Specifications and Ordering Information

The Single Channel Variable Volume Micropipette is available in 9 unique volume ranges from 0.2 μ l to 10 ml.

SPECIFICATIONS AND ORDERING INFORMATION	Model	Volume Range	Inc. μ l	A		CV	
				$\pm\%$	$\pm\mu$ l	$\pm\%$	$\pm\mu$ l
	NRO-2	0.2-2.0 μ l	0.01	2	0.04	1.2	0.024
	NRO-10	0.5-10 μ l	0.05	1	0.1	0.5	0.05
	NRO-20	2-20 μ l	0.1	0.8	0.16	0.4	0.08
	NRO-50	5-50 μ l	0.2	0.8	0.4	0.4	0.2
	NRO-100	10-100 μ l	0.5	0.6	0.6	0.2	0.2
	NRO-200	20-200 μ l	1.0	0.6	1.2	0.2	0.4
	NRO-1000	100-1000 μ l	5.0	0.6	6	0.2	2
	NRO-5000	0.5-5 ml	20.0	0.6	30	0.2	10
	NRO-10000	1-10 ml	50.0	0.6	60	0.2	20

The Single Channel Fixed Volume is available in 15 unique volumes from 1.0 μ l to 10 ml.

SPECIFICATIONS AND ORDERING INFORMATION	Model	Vol. μ l	A		CV	
			$\pm\%$	$\pm\mu$ l	$\pm\%$	$\pm\mu$ l
	NRO-F-1	1.0	5	0.05	5	0.05
	NRO-F-2	2.0	4	0.08	2	0.04
	NRO-F-5	5.0	2	0.1	1	0.05
	NRO-F-10	10.0	1	0.1	0.5	0.05
	NRO-F-20	20.0	0.8	0.16	0.4	0.08
	NRO-F-25	25.0	0.8	0.2	0.4	0.1
	NRO-F-50	50.0	0.8	0.4	0.4	0.2
	NRO-F-100	100.0	0.6	0.6	0.2	0.2
	NRO-F-200	200.0	0.6	1.2	0.2	0.4
	NRO-F-250	250.0	0.6	1.5	0.2	0.5
	NRO-F-500	500.0	0.6	3	0.2	1
	NRO-F-1000	1000.0	0.6	6	0.2	2
	NRO-F-2000	2000.0	0.6	12	0.2	4
	NRO-F-5000	5000.0	0.6	30	0.2	10
	NRO-F-10000	10000.0	0.4	40	0.2	20

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Our Product Excellence



Our products reflect the design philosophy of our organization, combining the best performance parameters with the best user experience.

We were honoured by CII Industrial Innovation Awards and adjudged a place in the top 25 Most Innovative Companies of 2016.

We are also accredited by a number of global organizations and have earned worldwide credibility.

The precision and accuracy of our liquid handling instruments is twice better than industry standards.*

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.

MICROLIT

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www.microlit.com

MICROLITNERO

Single Channel Variable and Fixed Volume Micropipettes



EXPERIENCE PRECISION

Experience the Power of Precision During Routine Laboratory Operations

MICROLIT RBO is a range of High Precision Micropipettes that offer a sophisticated blend of features and functionality. Built by our in-house team of product design engineers, it is categorised into Single Channel (Fixed and Variable Volume) and Multichannel (8-channel and 12-channel) Micropipettes.

These instruments are designed with ergonomics and intuitive handling in mind, and facilitate remarkable user experiences in practical laboratory environments.

Assured Quality with ISO 8655 Conformed Calibration

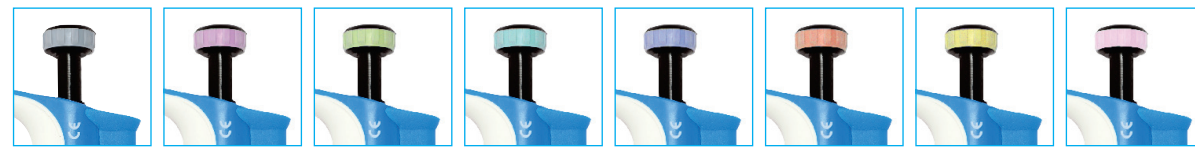


MICROLIT RBO is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Colour Coding for Easy Identification



Colour-coding for different capacities facilitates easy identification during daily laboratory routine.

Our Product Excellence



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MICROLIT RBO

High Precision Micropipette Single Channel and Multichannel



Single Channel Variable Volume Micropipette

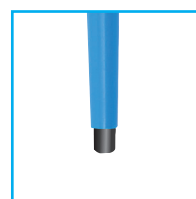
The instrument is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

Prominently used for Molecular Biology, Microbiology, Immunology, Cell Culture, Analytical Chemistry, Biochemistry, Genetics.



Adjust Volume Easily with Plunger

The Plunger has been carefully designed with a high quality spring mechanism to ensure snag free and soft movement. Simply turn it to adjust the instrument's volume comfortably.



Use Various Tips with a Universal Tipcone

A Universal Tipcone enhances the compatibility of the instrument and enables it to easily work with most of the internationally accepted standard tips.



Set the Volume with Perfection

A soft click sound at every increment ensures perfect volume setting and prevents any accidental changes. It also facilitates single-handed operation.



Store Safely with a Holder

The instrument includes a Holder that enables easy, efficient and safe storage.



Eject Tips Easily with a Tip Ejector

An in-built, streamlined Tip Ejector enables easy tip ejection and comfortable access to bottles and tubes with narrow necks.



Work with a Good Grip

A specially designed large Grippy provides good grip and great ease of use while operating.

The Single Channel Variable Volume Micropipette is available in 9 unique volume ranges from 0.2 µl to 10 ml.

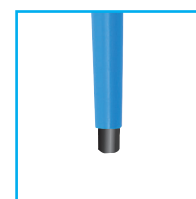
Model	Volume Range	Inc. µl	A		CV	
			±%	±µl	±%	±µl
RBO-2	0.2-2.0 µl	0.002	2	0.04	1.2	0.024
RBO-10	0.5-10 µl	0.02	1	0.1	0.5	0.05
RBO-20	2-20 µl	0.02	0.8	0.16	0.4	0.08
RBO-50	5-50 µl	0.1	0.8	0.4	0.4	0.2
RBO-100	10-100 µl	0.2	0.6	0.6	0.2	0.2
RBO-200	20-200 µl	0.2	0.6	1.2	0.2	0.4
RBO-1000	100-1000 µl	1.0	0.6	6	0.2	2
RBO-5000	0.5-5 ml	10.0	0.6	30	0.2	10
RBO-10000	1-10 ml	20.0	0.6	60	0.2	20

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Single Channel Fixed Volume Micropipette

The instrument is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

Recommended for Clinical Diagnostics, Control Analysis.



Use Various Tips with a Universal Tipcone

A Universal Tipcone enhances the compatibility of the instrument and enables it to easily work with most of the internationally accepted standard tips.



Work with a Good Grip

A specially designed large Grippy provides good grip and great ease of use while operating.



Store Safely with a Holder

The instrument includes a Holder that enables easy, efficient and safe storage.



Eject Tips Easily with a Tip Ejector

An in-built, streamlined Tip Ejector enables easy tip ejection and comfortable access to bottles and tubes with narrow necks.

The Single Channel Fixed Volume is available in 15 unique volumes from 1.0 µl to 10 ml.

Model	Vol. µl	A		CV	
		±%	±µl	±%	±µl
RBO-F-1	1.0	5	0.05	5	0.05
RBO-F-2	2.0	4	0.08	2	0.04
RBO-F-5	5.0	2	0.1	1	0.05
RBO-F-10	10.0	1	0.1	0.5	0.05
RBO-F-20	20.0	0.8	0.16	0.4	0.08
RBO-F-25	25.0	0.8	0.2	0.4	0.1
RBO-F-50	50.0	0.8	0.4	0.4	0.2
RBO-F-100	100.0	0.6	0.6	0.2	0.2
RBO-F-200	200.0	0.6	1.2	0.2	0.4
RBO-F-250	250.0	0.6	1.5	0.2	0.5
RBO-F-500	500.0	0.6	3	0.2	1
RBO-F-1000	1000.0	0.6	6	0.2	2
RBO-F-2000	2000.0	0.6	12	0.2	4
RBO-F-5000	5000.0	0.6	30	0.2	10
RBO-F-10000	10000.0	0.4	40	0.2	20

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Multichannel (8-channel and 12-channel) Micropipette

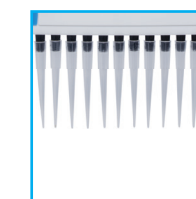
The instrument is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

Recommended for ELISA (Diagnostic Test), Molecular Screening, Kinetic Studies, DNA Amplification.



Adjust Volume Easily with Plunger

The Plunger has been carefully designed with a high quality spring mechanism to ensure snag free and soft movement. Simply turn it to adjust the instrument's volume comfortably.



Use Various Tips with a Universal Tipcone

A Universal Tipcone enhances the compatibility of the instrument and enables it to easily work with most of the internationally accepted standard tips.



Set the Volume with Perfection

A soft click sound at every increment ensures perfect volume setting and prevents any accidental changes. It also facilitates single-handed operation.



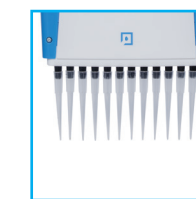
Work with a Good Grip

A specially designed large Grippy provides good grip and great ease of use while operating.



Store Safely with a Holder

The instrument includes a Holder that enables easy, efficient and safe storage.



Eject Tips with a Sequential Tip Ejector

A specially designed Sequential Tip Ejector and Tip Ejection Knob facilitate easy and effortless tip ejection, single-handedly.



Operate Flexibly

The lower housing of both the instruments can be rotated 360°, providing enhanced operational flexibility.

Both 8-channel and 12-channel Micropipettes are offered in 6 models, covering volume ranges from 0.5-10 µl to 40-300 µl.

Model	Volume Range	Inc. µl	A		CV	
			±%	±µl	±%	±µl
RBO-MCA-8/10	0.5-10µl	0.02	1.6	0.16	1	0.1
RBO-MCA-8/20	0.2-20µl	0.02	0.8	0.16	0.4	0.08
RBO-MCA-8/50	5-50µl	0.1	0.8	0.4	0.4	0.2
RBO-MCA-8/100	10-100µl	0.2	0.8	0.8	0.3	0.3
RBO-MCA-8/200	20-200µl	0.2	0.8	1.6	0.3	0.6
RBO-MCA-8/300	40-300µl	0.2	0.8	2.4	0.3	0.9

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Model	Volume Range	Inc. µl	A		CV	
			±%	±µl	±%	±µl
RBO-MCA-12/10	0.5-10µl	0.02	1.6	0.16	1	0.1
RBO-MCA-12/20	0.2-20µl	0.02	0.8	0.16	0.4	0.08
RBO-MCA-12/50	5-50µl	0.1	0.8	0.4	0.4	0.2
RBO-MCA-12/100	10-100µl	0.2	0.8	0.8	0.3	0.3
RBO-MCA-12/200	20-200µl	0.2	0.8	1.6	0.3	0.6
RBO-MCA-12/300	40-300µl	0.2	0.8	2.4	0.3	0.9

The precision and accuracy of our liquid handling instruments is twice better than industry standards.*

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.

Assured Quality with ISO 8655 Conformed Calibration

Each MICROLIT LILPET PRO is calibrated individually in an ISO 17025 laboratory according to ISO 8655 standards.

Our Product Excellence



Our products reflect the design philosophy of our organization, combining the best performance parameters with the best user experience.

We were honoured by **CII Industrial Innovation Awards** and adjudged a place **in the top 25 Most Innovative Companies of 2016.**

We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Volume μ l	Accuracy $\pm\%$	CV $\pm\%$
LILP-5	5	2.5	1.5
LILP-10	10	1.2	0.8
LILP-20	20	1.0	0.5
LILP-25	25	1.0	0.4
LILP-50	50	1.0	0.4
LILP-100	100	0.8	0.3
LILP-200	200	0.8	0.3

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument.

These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and and steadily.

Th error limits are in accordance with DIN EN ISO 8655-2.

MICROLIT

Your Satisfaction is Our Priority

MICROLIT products follow GMP norms and are manufactured under comprehensive QA (Quality Assurance) and QC (Quality Control). However, if you are dissatisfied with the operation of any of our products, get in touch with us or call your nearest MICROLIT dealer for a free replacement.

Designed and Manufactured by MICROLIT

629, Pakramau, Kursi Road, Lucknow - 226026, UP, India
Call at: +91-8081461996, +91-9918625629

For queries: info@microlit.com
For feedback: customercare@microlit.com
www.microlit.com

MICROLIT LILPET PRO | Miniature Fixed Volume Micropipette with Tip Ejector



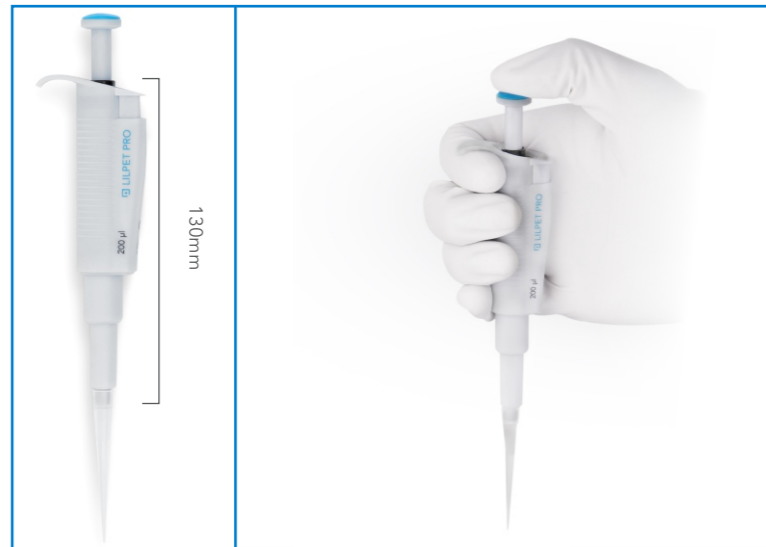
Perform Sensitive Laboratory Operations with Assurance

MICROLIT LILPET PRO, a miniature fixed volume micropipette with Tip Ejector is ideally suited for all sensitive applications. No need to use your hand to remove the used tip.

Designed by our in-house team of product design engineers, it offers Two-step Plunger Operation and is specially designed for use with diagnostic kits.

The ergonomic and intuitive design of these micropipettes helps in performing sensitive operations with high precision, accuracy and reliability in practical laboratory environments.

Experience the Power of Precision in Your Daily Laboratory Routine



Designed for Comfortable Usage

MICROLIT LILPET PRO has an optimum size - 130 mm in length - for high user comfort during pipetting. While using, hold it like a pipette, and not a syringe.



Operate Accurately with Two-step Plunger Operation

MICROLIT LILPET PRO comes with Two-step Plunger Operation that facilitates reverse pipetting and ensures last drop dispensing.

Eject used tips safely with built-in Tip Ejector

MICROLIT LILPET PRO comes with built-in tip ejector that facilitates safe ejection of used tip after pipetting

Autoclaving Parameters

MICROLIT LILPET PRO is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

Offered in 7 Fixed Capacities

1. 5 μ l
2. 10 μ l
3. 20 μ l
4. 25 μ l
5. 50 μ l
6. 100 μ l
7. 200 μ l

**Refer to the specifications and ordering information.*

Handle a Range of Volumes

The instrument's tip cone (5 μ l, 10 μ l, 20 μ l) is designed to accept micro tips of 200 μ l capacity and ultra-micro tips of 20 μ l capacity. The use of latter significantly enhances accuracy in practical laboratory environments.

Industry Focus -

MICROLIT LILPET PRO and the Diagnostic Kits

Manufacturing Industry

Today, the Diagnostic Kits Manufacturing Industry is growing at a tremendous rate in order to satisfy the ever-increasing need to analyse, determine or detect diseases in living organisms and/or measure the concentration of contaminants in consumer edibles like Beverages & Drinking Water, Milk & Dairy Products and Edible Fats & Oils etc.

One of the biggest consumers of diagnostic kits are the developing countries. The Rapid Test Kit detect the contamination of Milk Samples by Beta-Lactam and Tetracycline molecules.

In addition, Diagnostic Kits are also used as HbA1C Test Kits for diabetes detection. Real-time PCR or Quantitative PCR (qPCR) kits are used for pathogen detection, veterinary testing, meat speciation, fish speciation, GMO detection, Allergen testing, etc.

In order to carry out all these operations accurately, precise sampling and smooth transfer of these samples is essential.

Our specially designed range of Miniature Micropipettes MICROLIT LILPET PRO, that are also available as customisable OEM products, empower these Diagnostic Kits by offering a sophisticated blend of mobility, high ease of use.

**ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus.*

The evaluation was performed by trained and certified personnel at an ISO 17025 accredited lab.



Perform Sensitive Laboratory Operations with Assurance

MICROLIT LILPET, a miniature fixed volume micropipette, is a low cost, high precision liquid handling instrument.

Designed by our in-house team of product design engineers, it offers Two-step Plunger Operation and is specially designed for use with diagnostic kits.

The ergonomic and intuitive design of these micropipettes helps in performing sensitive operations with high precision, accuracy and reliability in practical laboratory environments.

Experience the Power of Precision in Your Daily Laboratory Routine



Designed for Comfortable Usage

MICROLIT LILPET has an optimum size - 130 mm in length - for high user comfort during pipetting. While using, hold it like a pipette, and not a syringe.



Operate Accurately with Two-step Plunger Operation

MICROLIT LILPET comes with Two-step Plunger Operation that facilitates reverse pipetting and ensures last drop dispensing.



Handle a Range of Volumes

The instrument's tip cone (5 µl, 10 µl, 20 µl) is designed to accept micro tips of 200 µl capacity and ultra-micro tips of 20 µl capacity. The use of latter significantly enhances accuracy in practical laboratory environments.

Autoclaving Parameters

MICROLIT LILPET is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

Offered in 7 Fixed Capacities

- 1. 5 µl
- 2. 10 µl
- 3. 20 µl
- 4. 25 µl
- 5. 50 µl
- 6. 100 µl
- 7. 200 µl

**Refer to the specifications and ordering information.*



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We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Volume μ l	Accuracy $\pm\%$	CV $\pm\%$
MM-5	5	2.5	1.5
MM-10	10	1.2	0.8
MM-20	20	1.0	0.5
MM-25	25	1.0	0.4
MM-50	50	1.0	0.4
MM-100	100	0.8	0.3
MM-200	200	0.8	0.3

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument.

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EXPERIENCE PRECISION

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