

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

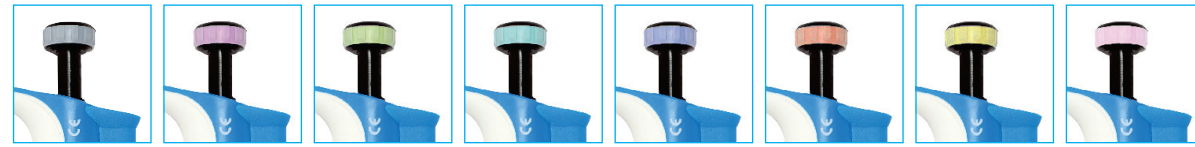


MICROLIT RBO is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

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



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.

MICROLIT

Your Satisfaction is Our Priority

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

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MICROLIT RBO

High Precision Micropipette Single Channel and Multichannel



Single Channel Variable Volume Micropipette

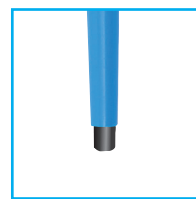
The instrument is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

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.

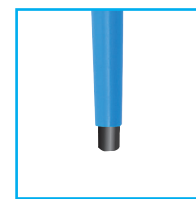
| Model | Volume Range | Inc. µl | A | | CV | |
|-----------|--------------|---------|-----|------|-----|-------|
| | | | ±% | ±µl | ±% | ±µl |
| RBO-2 | 0.2-2.0 µl | 0.002 | 2 | 0.04 | 1.2 | 0.024 |
| RBO-10 | 0.5-10 µl | 0.02 | 1 | 0.1 | 0.5 | 0.05 |
| RBO-20 | 2-20 µl | 0.02 | 0.8 | 0.16 | 0.4 | 0.08 |
| 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 |

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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 |

| 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 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.

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



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



MICROLIT BEATUS 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 |
| 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 |

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SPRING-
LESS
VALVE

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.



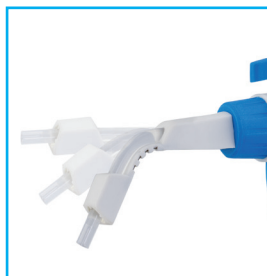
Re-direct Liquids with Recirculation Valve

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™

MICROLIT BEATUS 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.



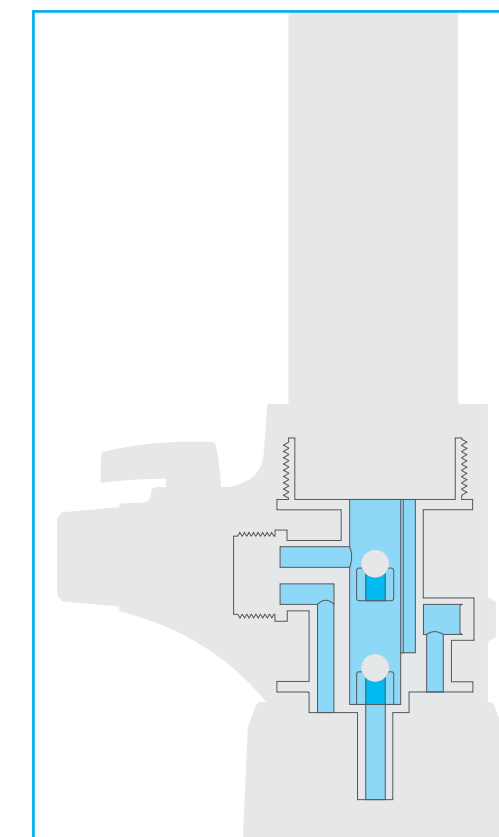
Work Flexibly with a 360° Adapter

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



- **Autoclaving Parameters**
MICROLIT 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.

*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



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Award-winning Design and Product Excellence



EP15166828.2 (Pending)



14715346



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

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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 |

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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™**

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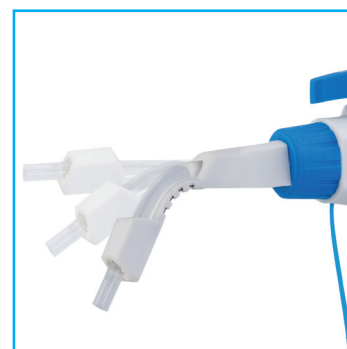
**Move Effortlessly with
a PTFE Piston**

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**

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 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.*