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BOROSIL® Scientific
enabling the future of science



MBQUEST

A Simple Reliable and Rapid Test For Microbial Quality in Milk

LABQUEST®

SMART • RUGGED • PRACTICAL

The Science Behind MBRT

The Methylene Blue Reduction Test (MBRT) is a recognized microbiological screening method described in internationally accepted dairy testing references and is routinely used by dairy industries, milk cooperatives, quality control laboratories, and research institutions for the rapid assessment of milk hygiene and bacteriological quality.



Smart MBRT Solutions for Modern Dairy Labs



Reliable. Accurate. Efficient.

Advancing Milk Quality Control with Smart MBRT Technology.

Reliable

Consistent performance, every time

Accurate

Precise results you can trust

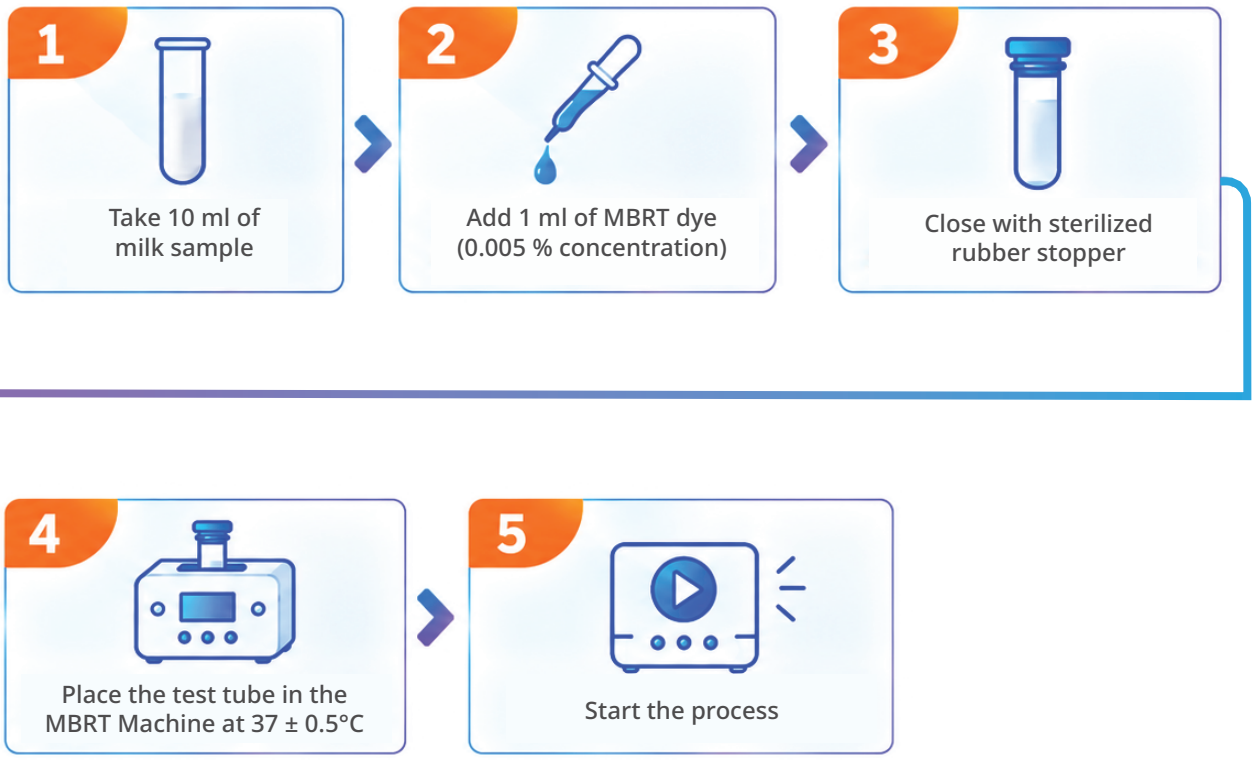
Efficient

Accelerating milk quality decisions

MBRT Quality Assessment in 5 Simple Steps

During incubation at 37 ± 0.5°C, metabolically active microorganisms consume dissolved oxygen and reduce methylene blue from its oxidized (blue) form to its reduced leuco (colorless) form.

5 *Simple Step Procedure*



Bacterial Activity	Oxygen Consumption	Dye Reduction	MBRT Time	Milk Quality
Low	Low	Slow	Long	★★★★★ Excellent
Moderate	Moderate	Moderate	Medium	★★★ Good
High	High	Rapid	Short	Poor

Why Laboratories Choose MBQUEST ?

Multiple slot Capacity:
Test more samples simultaneously with high throughput.

Smart connectivity:
Seamless data transfer and integration for digital lab management.

Enhances milk safety:
Supports early detection of microbial contamination for safer milk.

Leak-Resistant Sample Handling:
Secure sample handling minimizes leakage and spillage, ensuring cleaner operation, reduced sample loss, and hassle-free testing.

Designed to Minimize Contamination Risk:
Controlled, enclosed testing helps protect sample integrity, minimize contamination risk, and support consistent, reliable results.

Accurate & Reliable Results:
Precise microbial detection for dependable milk quality assurance.

User friendly interface:
Intuitive touchscreen for effortless operation and data access.

Real time monitoring:
Instant insights for faster decisions and improved efficiency.

Built for modern labs:
Compact, durable and designed for today's high performance labs.

Ideal for:

DAIRY INDUSTRY

- Raw Milk Quality Control
- Milk Collection Center
- Chilling Centers
- Process Monitoring
- Ensuring Product Safety



Key Functional Advantages:

- Rapid visual indication
- Simple step-wise workflow
- Supports microbial quality assessment
- Helps faster quality decisions

TECHNICAL SPECIFICATIONS

Model No.	MBQUEST
No. of channels	16
Milk type	Cow/ Buffalo/ Mixed
Compatible Dye	Methylene Blue
Display	5” Capacitive Touchscreen
Communication	Ethernet USB & WiFi
Temperature controller	PID
Incubation Temperature	37°C ± 0.5°C
Warm up time	15 min
Test tube	30 no
Inbuilt calibration	Yes
Power backup	UPS Free
User login facility	Yes
Compatible test tube	OD:15mm, 15ml with suitable cork
Weight	7 kg
Dimensions (L × B × H)	260 × 240 × 210 mm
Peak Power consumption	60 W
Adaptor	12V/10A

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