



Science.
Applied to Life™

3M Food Safety

Test smarter. Know quicker. Release faster.

3M™ Microbial Luminescence System
for UHT & ESL Beverage Testing

Powerful technology makes testing easy.

3M™ Microbial Luminescence System

Boost the efficiency of your business while enhancing quality with the 3M Microbial Luminescence System (MLS). Designed for rapid release of Ultra High Temperature (UHT) and Extended Shelf Life (ESL)

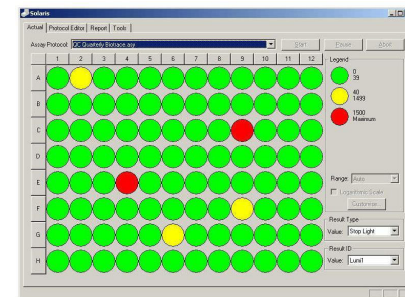
processed products, this system features a simple testing format, a compact instrument and easy-to-use data management software — for faster results and greater reliability than traditional methods.



Step 1:
Pipette 50 μ L of pre-incubated sample into each well.



Step 2:
Place micro-plate into the MLS instrument and select the appropriate assay.



Step 3:
Get real-time pass/fail results in 27 minutes or less.

Get reassuring reliability.

Utilizing ATP bioluminescence technology, the 3M Microbial Luminescence System provides reliable, accurate results.

Traditional Methods



Microorganisms have diverse nutrient and incubation requirements. No single agar method can capture all potential spoilage microorganisms, such as aerobic bacteria, anaerobic spore formers, yeasts, molds and lactic acid bacteria.



pH testing can be unreliable because it can miss non-fermenters (e.g., *Pseudomonas* spp., *Acinetobacter* spp.), which do not ferment sugars and therefore might not change the pH of the beverage.

VS.



3M Microbial Luminescence System

Confidence — Because ATP is present in all living cells, it can be used as a universal marker for biological contamination across all microorganisms — so you can be confident that you're not missing critical organisms.

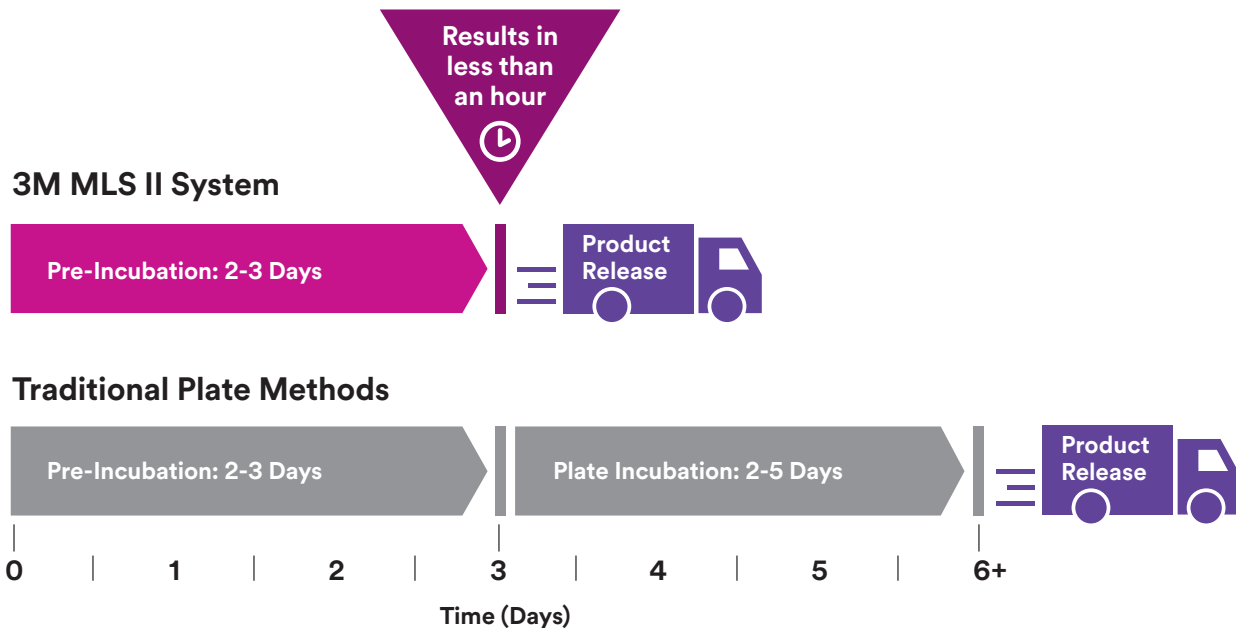
Versatility — Unlike traditional agar methods, there's no need to choose the right agar for certain microorganisms.

Efficiency — Detect the full range of microbial contamination without running multiple types of agar or a combination of agar and pH testing.

Real-time results with real benefits.

With traditional agar methods, not only do you have to pre-incubate sample containers, you then have to wait for the microorganisms to grow on

the plate for two to five days. The 3M™ Microbial Luminescence System eliminates the second incubation period.



Release Product Faster

After pre-incubation, you get real-time results in less than an hour, allowing you to release product two to five days faster. That means:

- ▶ Reduced storage space and cost
- ▶ Faster inventory turns
- ▶ Increased cash flow
- ▶ Greater flexibility and responsiveness to customer needs

One system. Multiple applications.

With the 3M MLS UHT Beverage Screen Kit, a wide variety of UHT and ESL products can be tested.

- ▶ Dairy products (milk, flavored milk, creamers, ice cream mix)
- ▶ Dairy substitutes (soy, rice, almond and coconut milks)
- ▶ Juices (orange, apple, peach, grape, tomato)
- ▶ Caffeinated beverages
- ▶ Smoothies (formulated with milk and juice)
- ▶ Infant/medical nutrition (baby formula, nutrition shakes)
- ▶ Coconut water
- ▶ Soups and broths

Contact your 3M representative for more information.



Support you can count on.

Keeping beverages safe is a big responsibility — but you don't have to do it alone. With our extensive resources, global reach and local presence, 3M supports you with unparalleled technical help, quality training and customer service.

To learn more about how the 3M™ Microbial Luminescence System can help you operate quickly and efficiently with confidence, contact your local 3M representative or visit 3M.com/foodsafety.



3M Food Safety
3M Center, Building 275-5W-05
St. Paul, MN 55144-1000 U.S.A.

Phone 1-800 328-6553
Web 3M.com/foodsafety

3M Canada
Post Office Box 5757
London, Ontario N6A 4T1 Canada

Phone 1-800-364-3577

Ordering Information

Catalog Number	Description	Case Quantity
Equipment/Hardware		
3900	3M Microbial Luminescence System II (MLS II) USB	1
3012	3M Microbial Luminescence System (MLS) Service Contract for 1 Piece of Hardware	1
3013	3M Microbial Luminescence System (MLS) Service Contract for 2 Pieces of Hardware	1
Assays		
BEV3000	3M Microbial Luminescence System (MLS) Ultra High Temperature (UHT) Beverage Screen Kit	3000
BEV600	3M Microbial Luminescence System (MLS) Ultra High Temperature (UHT) Beverage Screen Kit	600
3004	3M Microbial Luminescence System (MLS) ATP Reagent Control Kit, 22.5ng/vial	50
ATP10MLS	3M Microbial Luminescence System (MLS) Reagent Control Kit	10
Maintenance		
3005	3M Microbial Luminescence System (MLS) Injector Cleaning Kit, 10 ATP Free Water, 2 Clean Solutions	1
BMLSCK	3M Microbial Luminescence System (MLS) Weekly Cleaning Kit	3
3006	3M Microbial Luminescence System (MLS) Maintenance Solution	1
Accessories		
3007	3M Microbial Luminescence System (MLS) Microwell Plate	50
3008	3M Microbial Luminescence System (MLS) Microwell Strip	320
3009	3M Microbial Luminescence System (MLS) Microwell Strip Holder	1

Instrument Dimensions: 15" D x 8" W x 12" H. Weight: 24 lbs.

© 3M 2016. All rights reserved. 3M is a trademark of 3M.
Used under license in Canada. Please recycle. Printed in U.S.A.