



Science.
Applied to Life.™

Test smarter. Know quicker. Release faster.

3M™ Microbial Luminescence System
for UHT and 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 µL 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.

Utilising ATP bioluminescence technology, the 3M microbial luminescence system provides reliable, accurate results.

*Data on file. April 2016.

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, moulds 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.

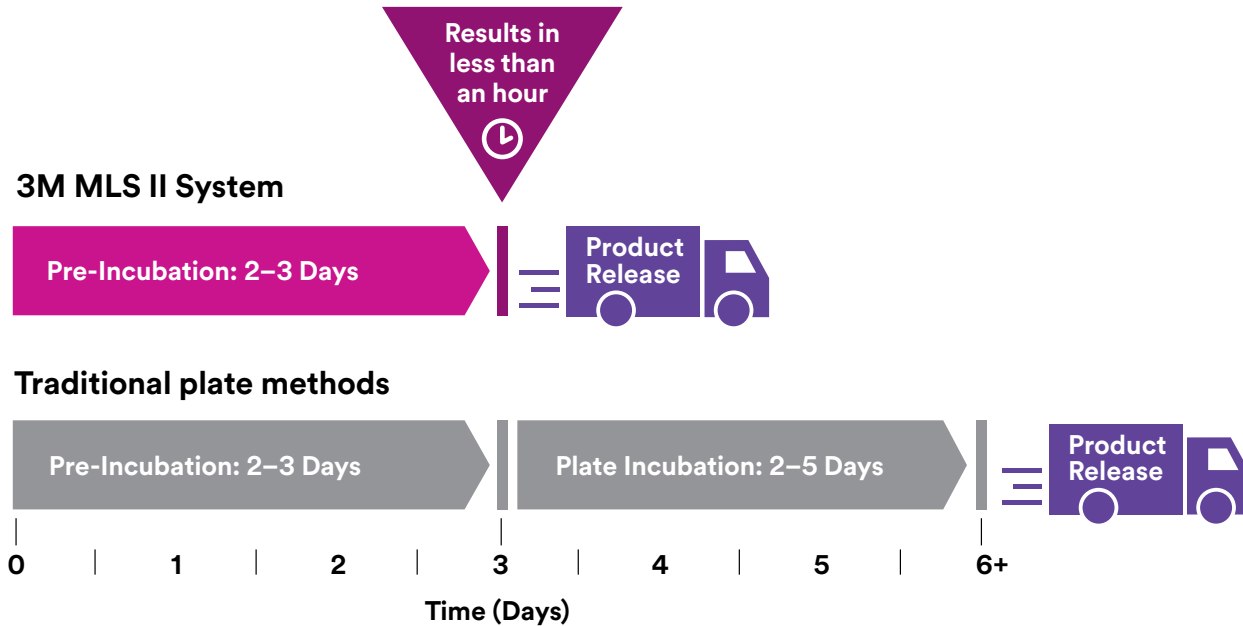
Versatility — Unlike traditional agar methods, there's no need to choose the right agar for certain microorganisms.

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.



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, flavoured 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

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

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 Deutschland GmbH
 Carl-Schurz-Str.1
 D-41460 Neuss
 Germany
 + (49) 2131 14-3000

3M United Kingdom PLC
 Morley Street
 Loughborough
 Leicestershire LE11 1EP
 United Kingdom
 +(44) 1509 611 611

3M Österreich GmbH
 Gebäude J
 A-1120 Wien
 Kranischberggasse 4
 Austria
 +(43) 1 86 686-0

Ordering Information

Catalogue Number	Description	Case Quantity
Equipment/Hardware		
3991	3M™ Microbial Luminescence System II (MLS II) USB	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
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.

emeafoodsafety@mmm.com
www.3m.com/foodsafety