



# Test easier. Release faster.

Neogen® Microbial Luminescence System for  
UHT and ESL Beverage Testing

# Powerful technology makes testing easy.

## Neogen® Microbial Luminescence System

Boost the efficiency of your business while enhancing quality with the Neogen® 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 Neogen® 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, 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.



### Neogen® 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.

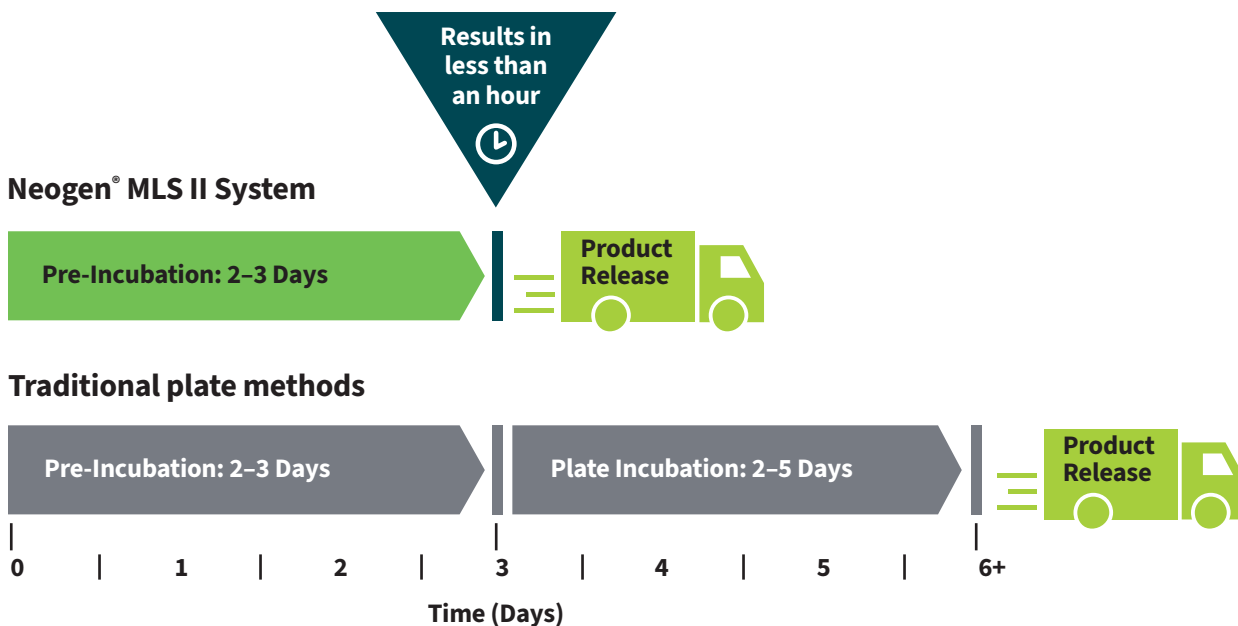
**Versatility** — Unlike traditional agar methods, there's no need to choose the right agar for certain microorganisms.

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

\*Data on file. April 2016.

# 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 Neogen® 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 Neogen® 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**

**Contact your Neogen® 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, Neogen® supports you with unparalleled technical help, quality training and customer service.

To learn more about how the Neogen® Microbial Luminescence System can help you operate quickly and efficiently with confidence, contact your local Neogen® representative or visit [neogen.com](https://neogen.com).

## Ordering Information

SKU	Description	Case Quantity
<b>Equipment/Hardware</b>		
3991	Neogen® Microbial Luminescence System II (MLS II) USB	1
<b>Assays</b>		
3000DPQCOG	Neogen® Microbial Luminescence System (MLS) Ultra High Temperature (UHT) Dairy Screen Kit	3000
BEV600	Neogen® Microbial Luminescence System (MLS) Ultra High Temperature (UHT) Beverage Screen Kit	600
ATP50	Neogen® Microbial Luminescence System (MLS) ATP Reagent Control Kit	50
<b>Maintenance</b>		
3005	Neogen® Microbial Luminescence System (MLS) Injector Cleaning Kit, 4 ATP Free Water, 4 Clean Solutions	4
BMLSCK	Neogen® Microbial Luminescence System (MLS) Weekly Cleaning Kit	3
<b>Accessories</b>		
3007	Neogen® Microbial Luminescence System (MLS) Microwell Plate	50
3008	Neogen® Microbial Luminescence System (MLS) Microwell Strip	320
3009	Neogen® Microbial Luminescence System (MLS) Microwell Strip Holder	1

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



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