



Title: 3M™ Microbial Luminescence System [MLS] Product Reference Guide

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Supersedes: New

Technology Platform: 3M™ Microbial Luminescence System (MLS)

Originating Location: St. Paul, Minnesota

The purpose of this Technical Bulletin is to provide a description of the 3M™ MLS products available and contact information for ordering.

The 3M™ Microbial Luminescence System (MLS) is a rapid alternative to traditional microbiological assessment of Ultra High Temperature (UHT) treated and Extended Shelf Life (ESL) products. It uses ATP bioluminescence in a microwell based luminometer to detect the presence of microbial ATP in UHT or ESL milk and dairy products.

The 3M™ UHT Dairy Screen reagents are specifically designed to exclude ATP from non-microbial sources and measures only microbial ATP in a light output format of RLUs (Relative Light Units). The 3M™ MLS ATP Reagent Control Kit provides an effective assurance that your reagents and instrument are being used correctly to ensure that reliable results are achieved every time.

This 3M™ MLS Products Reference Guide will assist you in selecting the proper product for your application.

KITS AND REAGENTS – Catalog number and Description



3M™ MLS Mini UHT Dairy Screen Kit: 3060

Reagents for 600 tests. Content:

4 vials ATPase + 4 Buffer (9.5 ml each)

2 vials L/L1 + 2 Buffer (35 ml each)

1 bottle Extractant (125 ml)

Storage: 2-8° C



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3M™ MLS UHT Dairy Screen Kit: 3000DPQCOG

Reagents for 3000 tests. Contains **five 3060** kits.
20 vials ATPase
20 vials ATPase Buffer (9.5 ml each)
10 vials L/L1
10 vials L/L1 Buffer (35 ml each)
5 bottles Extractant (125 ml each)
Storage: 2-8°C

3M™ MLS UHT Dairy Screen Kit: 3090

Reagents for 150 tests.
3 vials ATPase + 3 Buffer (4.5 ml each)
3 vials L/L1 + 3 Buffer (8 ml each)
1 bottle extractant (125 ml)
Storage: 2-8° C



3M™ MLS ATP Reagent Control Kit: 3004

Positive control. 22.5 ng of
ATP/vial.
Storage: 2-8° C
Unit = 50/case



3M™ MLS L/L1 Replacement kit: 3003B

300 tests UHT assays. Content:
1 vial lyophilized L/L1 enzyme
1 vial L/L1 Buffer (35 ml)
Storage: 2-8° C



3M™ MLS ATPase Replacement Kit: ATPase300

300 tests UHT assays. Content:
2 vials lyophilized ATPase enzyme
2 vials ATPase Buffer (9.5 ml each)
Storage: 2-8° C



3M™ MLS Injector Cleaning Kit: 3005

For daily use. Prevents biofilm
build-up. Content:
2 Cleaning Solution (125 ml each)
10 ATP-free water (125 ml each)
10 Amber vials
Storage: 2-8° C



3M™ MLS Maintenance Solution: 3006

For weekly use. Remove protein and
biofilm. Content:
1 bottle of Maintenance Solution
“Hazardous” shipment
Storage: Ambient

IMPORTANT: Once re-hydrated, the enzymes *ATPase* and *L/L1* have a shelf-life of 2 days and 5 days respectively, when stored at 2-8° C.



INSTRUMENT, ACCESSORIES AND PARTS – Catalog number and Description



3M™ MLS-USB: 3993
 Microplate, 3 injector-dispenser luminometer designed for microbial detection.
 Content:
 Required MLS accessories: instrument power cable, USB cable, syringes (3),
 injectors (3), tubing kits for 3 injectors and drain plate.
 3M™ MLS-USB Instrument User Manual
 Manufacturer's MLX Luminometer Operator's Manual
 Revelation™ MLX software on CD
 Instrument Unpacking Instruction Sheet



3M™ MLS Dispense Inject Probe B: 3910
 Dispense ATPase reagent. Not interchangeable with 3911.
 Unit = 1 probe



3M™ MLS Dispense Inject Probe A or C: 3911
 Dispense Extractant and L/L1 reagent. Not interchangeable with 3910.
 Unit = 1 probe

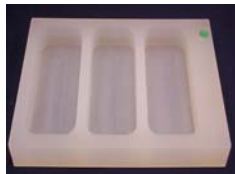


3M™ MLS Double Head Tube: 3908
 Transfers fluid from the valve to the inject probe.
 Unit = each



3M™ MLS Single Head Tube: 3909
 Transfers fluid from the reagent bottle to the valve. To use only with the 3M™ MLS instrument.
 Unit = each

3M™ MLS-USB Single Head Tube: 3907
 Transfers fluid from the reagent bottle to the valve. To use only with the 3M™ MLS-USB instrument.
 Unit = each



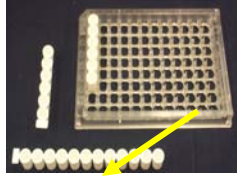
3M™ MLS Drain Plate: 3912
 Used during instrument cleaning.
 Unit = each



3M™ MLS Microwell Plate: 3007
 96 sample wells. Single-use.
 Disposable.
 Unit = 50/box



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3M™ MLS Microwell Strip: 3008

12 well-strip. Use with MLS
Microwell Strip Holder 3009.
Single use. Disposable.
Unit = 320/case



3M™ MLS Microwell Strip Holder: 3009

96-well template holder for
3M™ Microwell Strips 3008.
Reusable.
Unit = each



3M™ MLS Short Neck Bottle Holder: C070113000F

Holds reagent bottles B (ATPase) and C
(L/L1) in place.
Unit = each



3M™ MLS Long Neck Bottle Holder: C070113001L

Holds reagent bottle A (Extractant) in
place.
Unit = each



3M™ MLS Syringe and Plunger: 3902

Delivers reagent from bottle to inject
probe through valve.
Unit = Each



3M™ MLS Amber Vials: 3011

Designed to hold ATP-free water,
Cleaning Solution, or Maintenance
Solution during cleaning procedures.
Discard frequently.
10/package

In the US, to place an order, inquire about product availability, pricing, or check the status of your order, call **3M Customer Service: 1-800-328-1671**.

For **Technical Service**, call **1-800-328-6553** and select **option 3**.

Outside of US, please contact your local 3M Representative to assist you.

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