

3M™ Microbial Luminescence System (MLS II)

The 3M™ MLS II is a microwell-plate luminometer designed for microbial Adenosine-Tri-Phosphate (ATP) detection in UHT/ESL milk products.

Benefits:

- Allows immediate corrective action
- Simple and easy to use
- Provides real-time results
- Demonstrates due diligence
- Can help reducing quarantine stocks
- Can save time and money
- Increase cash flow



Key Features:

- Fully automated, easy to use, push button system
- Powerful, user-friendly data trending software
- Automatic generation of summary and detailed reports
- Internal and external verification checks ensure accurate and precise readings
- Accurate and accessible reagent injection system
- State of the art microwell-plate based platform
- Recovery of unused reagents

Instructions

- Pre-incubate sample for a minimum of **48hrs**
- Pipette the sample into the microwell-plate
- Place microwell-plate with samples in the MLSII
- Start the assay

Results

Status is displayed in a highly visual colour coded format

- **Green (Pass)**
- **Yellow (Caution)**
- **Red (Fail)**



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General Technical data:

Dimensions	203 x 408 x 360 mm (with pump)
Weight	10,9 kg
Noise	67 dB with distance 1m
PC Requirement	Microsoft Windows XP, Pentium Processor or similar (500 MHz or higher), CD-ROM drive, Serial port, USB 2.0

Power requirements:

Power Supply	Voltage 100-240 VAC Frequency: 50-60 Hz Power consumption: 30 W (peak 100 W) Voltage: 24 VDC Current: 1A (peak 3 A)
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Modules:

Injectors	Up to 3 syringe pumps in measuring position, 10-300 µl in 1µl increments
Shaker	Linear, orbital and double orbital: speed programmable
Waste Pump	Built in, software driven pump with priming function

Detection Unit:

Detector	Low noise PMT in photon counting mode
Plates	96 well opaque microwell plates and strip plates, optional 384 microwell plates (software selectable)

Performance / Detection Limit:

Crosstalk	$< 2 \times 10^{-5}$
Sensitivity	$< 0,3$ attomol of Aequorin (amol= 10^{-18} mol)

Packaging:

Cardboard box dimensions	570 x 515 x 310 mm
Weight	12,9 kg

Ordering information:

3M™ MLS II (including Biotrack® MLS)	MLSII
3M™ MLS Dairy Screen Kit (3000 tests)	DPQCOG3000
3M™ MLS Mini Dairy Screen Kit (600 tests)	BDKTS
3M™ MLS Microwell Plate (50)	MLS 3007
ATP Standard MLS	ATP10MLS
3M™ MLS Weekly Cleaning Kit	BMLSCK
3M™ MLS Injector Cleaning Kit (daily use)	MLS 3005
MLS2, Maintenance Kit	MLS 3006