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)

**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 x 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)