

Title: Weekly Cleaning of the 3M™ Microbial Luminescence System [MLS] or 3M™ Microbial Luminescence System-USB [MLS-USB]

3M™ MLS or 3M™ MLS-USB Operation– Weekly Cleaning

Number: TB.078.00

Effective Date: February 2008

Supersedes: New

Technology Platform: 3M™ Microbial Luminescence System [MLS]

Originating Location: St. Paul, Minnesota

This technical bulletin is intended to provide a rapid protocol to perform the weekly cleaning of the 3M™ MLS or 3M™ MLS-USB [USB port] after testing Ultra High Temperature (UHT) processed and Extended Shelf-Life (ESL) dairy products.

ONCE A WEEK clean lines A, B and C with the 3M™ MLS Maintenance Solution, a protein removal solution. This should be done at the beginning of the week, prior to usage, or at the end of the week, prior to shutting the system down.

Washing Injectors – Step 1

1. If present in the lines, exchange the 3M™ MLS Injector Cleaning Solution or the reagents with ATP-Free water.
2. Select **UTILITY, DISPENSERS** (INITIALIZE is only necessary if just started-up). Choose **WASH/PURGE**, injectors A, B and C and **20** strokes. Click **OK**.
3. Place Drain Plate in plate carrier. Click on **OK**.
4. Remove and empty Drain Plate. Click **OK**.

Priming Injectors

1. Replace the ATP-free water with 3 vials containing the 3M™ MLS Maintenance Solution on injectors A, B and C.
 2. In **UTILITY, DISPENSERS**, choose **WASH/PURGE**, select injectors A, B and C, **6** strokes. Click **OK**.
 3. Place Drain Plate in plate carrier. Click on **OK**.
- Remove and empty Drain Plate. Click **OK**. **ALLOW THE PROTEIN REMOVAL FLUID TO SIT IN THE LINES FOR A MINIMUM OF 20 MINUTES or A MAXIMUM OF 2 HOURS.**

Washing Injectors - Step 2

1. Replace the Maintenance Solution with 3 vials containing **ATP-free water** for injectors A, B and C.
2. In **UTILITY, DISPENSERS**, choose **WASH/PURGE**, injectors A, B, and C and **20** strokes. Click **OK**.
3. Place Drain Plate in plate carrier. Click **OK**.
4. Remove and empty Drain Plate. Click **OK**.



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CAUTION - The 3M™ MLS Maintenance Solution is **CORROSIVE**. Please read the Material Safety Data Sheet [MSDS] before using this solution for the first time. Take all necessary precautions. Wear eye protection, gloves, and protective clothing. Take care when emptying the drain plate.

If testing of UHT dairy products follows, perform the following actions.

Priming Injectors for Reagent Check assay

1. Replace ATP-free water with **Reagents** on injectors, **Extractant on A**, **ATPase on B** and **L/L1 on C**.
2. In the **UTILITY, DISPENSERS**, choose **PRIME**, select injectors **A, B** and **C** and **4** strokes. Click **OK**.
3. Place Drain Plate in plate carrier. Click **OK**.
4. Remove and empty Drain Plate. Click **OK**. Click **DONE**.

Before testing any UHT samples run REAGENT Check.

If standby or turning off of the MLS or MLS-US instrument follows, perform the following actions.

1. Replace the 3 vials of ATP-Free water with 3 vials containing the 3M™ MLS Injector Cleaning fluid.
2. In **UTILITY, DISPENSER**, choose **PRIME**. Select injectors **A, B** and **C** and **6** strokes. Click **OK**.
3. Place Drain Plate in plate carrier. Click **OK**.
4. When the priming cycle is complete, remove and empty Drain Plate. Click **OK** and then **DONE**. The Injector Cleaning fluid should remain in the lines when the MLS is not in use.
10. To shut down the system **CLOSE** all files. Click on **Shut Down**. When prompted with “What do you want the computer to do?” select **Shutdown**, click **Enter**. It is now safe to turn off the computer. **Do NOT press Restart. Simply turn off MLS.**

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