



PyroWave® XM Fluorescence Microplate Reader Preventative Maintenance Overview

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The following steps will be completed in accordance with Lonza Walkersville, Inc. Field Service Preventative Maintenance Procedure for the PyroWave® XM Fluorescence Microplate Reader (USWV-26635) and Field Service Performance Verification for the PyroWave® XM Fluorescence Microplate Reader (USWV-26636).

Task	Description
Focusing lens cleaning	Hardware maintenance
Wavelength filters cleaning	Hardware maintenance
System Test	System diagnostic test verifies power readings and printed circuit board (PCB), checks the gain values of the flash lamp at multiple voltage settings, positional alignments, temperature set point and zones, and the analog to digital converter
Corners (Alignment) Test	Checks alignment of the plate carrier
Detection Limit/Linearity Test	Verifies that the system is linear, and establishes the detection limit of the instrument
Sensitivity Test	Should be conducted by the customer for the current in-use lot of Lonza PyroGene® Reagents PRIOR to PM commencement
Uniformity Test	Verifies the uniformity of the assay environment across the entire 96-well microplate (an optional temperature plate test may be offered in some regions)
General Maintenance	Lamp replacement, cleaning, optical path test, and part replacements as needed to maintain optimal functioning

Performance Verification Procedures will be conducted with the Lonza Service Engineer's laptop computer and the most current version of the WinKQCL® Software, unless otherwise requested*. An engineer signed service report PDF is provided upon completion following Lonza's SOP (USWV-33539).

Please note: Reagents and consumables are not provided by Lonza. The customer should ensure the following reagents and consumables are available:

- 1 x PyroGene® rFC Assay kit (P/N 50-658U)
- 1 x LAL Reagent Water (P/N W50-100)
- 1 x Fluorescence liquid test kit (P/N 7160013)
- 2 x LAL Reagent Grade Multi-well Plates (P/N 25-340, 50/box)
- 4 x Pyrogen-free Dilution Tubes (P/N N207, 30/pack)
- 1 x LAL Reagent Reservoirs (P/N 00190035, 10/pack)
- Additional equipment required:
 - A full set of micropipettes and compatible endotoxin tested tips (ideally not used for other microbiology work to avoid cross contamination)
 - 10 µL/100 µL/1000 µL variable single channel pipettes
 - 8 channel 100 µL pipette
 - Vortex mixer able to vortex vigorously
 - Test tube rack to hold dilution tubes
 - Discard facilities

Cancellation or postponement less than 4 weeks from the confirmed date of work will result in a cancellation fee being billed and payable as penalty. If the work is rescheduled, labor will be billed in addition on completion.

**The customer is required to have a WinKQCL® Software account set up for the engineer with 'Analyst' permissions and 'Reader management' permission if they do not want the engineer to use their own service laptop.*

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