

Pharma & Biotech



ELx808™ IU and RIU Microplate Reader Preventative Maintenance Overview

The following steps will be completed in accordance with Lonza Walkersville, Inc. Field Service Preventative Maintenance Procedure for the ELx808TM IU and RIU Microplate Reader (USWV-5176) and Field Service Performance Verification for the ELx808TM IU and RIU Microplate Reader (USWV-5177).

Task	Description
Checksum Test	Verifies the firmware is the recommended version
Empty Carrier Test	Ensures proper communication with the reader, checks for
	background optical noise
System Self-Test	Verifies performance of the filters, lamp, optical sensors and
	temperature of the four incubation zones
Optical Density Validation Test	Verifies reader linearity, channel-to-channel variability, and
	column-to-column reproducibility
Absorbance Plate Test	Verifies alignment and operation of the plate carrier and related
	components, and optical performance (accuracy and repeatability)
	as compared to a NIST traceable standard
UniformityTest	Verifies the uniformity of the assayenvironment across the entire
	96-well microplate (an optional temperature plate test maybe
	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-24668).

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

- 1 x Kinetic-Chromogenic LAL Assay kit (P/N 50-650U) OR Kinetic-Turbidimetric LAL Assay kit (P/N N383)
- 1 x LAL Reagent Water (P/N W50-100)
- 1 x LAL Reagent Grade Multi-well Plates (P/N 25-340, 50/box)
- 2 x Pyrogen-free Dilution Tubes (P/N N207, 30/pack)
- 2 x LAL Reagent Reservoirs (P/N 00190035, 10/pack)
- Lonza Stepped Neutral Density (SND) Plate
- Absorbance Test Plate (6 OD Filters)
- 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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