

# Luminex<sup>®</sup> 200<sup>™</sup> Customer Fact Sheet

## Welcome!

Thank you for your continued investment in Luminex. To aid your efforts, below are some tips and information that may help with successful operation of the product. For complete information on the Luminex<sup>®</sup> 200<sup>™</sup> System, please refer to the Luminex 200 System User Manual.

### **Commonly Ordered Parts and Accessories**

## Accessories

Description	Part Number
Sample Needle Height Alignment Kit	CN-0015-01
Heater Block (XYP)	CN-0017-01
Automated Maintenance Plate	CN-0206-01
RUO*	
Description	Part Number
xMAP <sup>®</sup> Sheath Fluid, 20 L	40-50015
Shealth Fluid PLUS	40-50021
Sheath Concentrate Pack	40-50018
Sheath Concentrate PLUS	Coming Soon
Calibration Kit, 25 Uses	LX2R-CAL-K25
Performance Verification Kit, 25 Uses	LX2R-PVER-K25
IVD**	
Description	Part Number
xMAP <sup>®</sup> Sheath Fluid, 20 L	40-50000
Sheath Fluid PLUS	Coming Soon
Sheath Concentrate Pack	40-75680
Sheath Concentrate PLUS	Coming Soon
Calibration Kit, 25 Uses	LX200-CAL-K25
Performance Verification Kit, 25 Uses	LX200-CON-K25

#### **Spare Parts**

Description	Part Number
Six Month Preventative Maintenance Kit	CN-0096-01
Rear Air Filter	CN-0001-01
Long Sample Probe	CN-0007-01
Sheath Filter w/Quick Disconnect	CN-0010-01
Syringe Cylinder w/Seal	CN-0013-01
Intake Air Filter	CN-0027-01



**Contact Luminex for pricing information.** 

## **Calibration and Verification Failure Causes**

#### CAL1, MCAL1, and CAL2

- Incorrect target values
- Not enough drops were dispensed
- Incorrect wells selected
- Expired or improperly stored sheath fluid or reagents
- Improperly diluted 20x sheath concentrate
- Probe height adjusted incorrectly
- Clogged probe or cuvette
- Use of other reagent in place of sheath fluid
- Waste container full or overfilled
- Instrument idle for long period of time without proper cleaning
- Not running the magnetic calibrator beads

#### CON1, MCON1, and CON2

- Incorrect target values
- Not enough drops were dispensed
- Incorrect wells selected
- Expired or improperly stored sheath fluid or reagents
- Improperly diluted 20x sheath concentrate
- Probe height adjusted incorrectly
- Clogged probe or cuvette
- Waste container full or overfilled
- Failing MFI means could indicate instrument needs cleaning
- Not running the magnetic verification beads

#### FL1 and FL2

- Not enough drops were dispensed
- Incorrect wells selected
- Probe height adjusted incorrectly
- Clogged probe or cuvette
- Internal component could be malfunctioning



Luminex<sup>®</sup> 200<sup>™</sup> Calibration Kit



Luminex<sup>®</sup> 200<sup>™</sup> Performance Verification Kit

## **Stringent Cleaning**

If you are experiencing the following issues, please reference the stringent cleaning process.

- Low or no bead counts
- Slow events
- Calibration failure
- Dripping probe
- Bead shift
- Sample empty error
- Air in the syringe
- Clog

#### **Stringent Cleaning Process**

- 1. Remove sample probe and sonicate for 2-3 minutes. Using a syringe or a squeeze bottle, flush the sample probe with DI water into the narrow end, out through the larger end.
- 2. Replace sample probe and readjust the probe height appropriately.
- 3. Fill the XYP<sup>™</sup> reservoir with 0.1 N NaOH and run the Sanitize command twice.
- 4. Empty the reservoir and fill with 10-20% bleach. Run the 'Sanitize' command twice.
- 5. Run the following sequence of commands; Backflush, Drain, Backflush, Drain, Backflush, Drain, Alcohol Flush, Alcohol Flush, and Wash, Wash, Wash (all Wash commands using DI water).
- 6. Vortex the CAL / VER microspheres to ensure homogeneity. Verify that all of the CAL and CON target values are correct, then recalibrate the system. You should see the total events/sec peak above 250 events.

The training video for this procedure is available by clicking on the link: Luminex 100/200

## **Adjusting Your Sample Probe**

Adjusting your probe height is important. You should adjust the sample probe vertical height each time you change the type or style of your microtiter plate.

#### Procedure

- 1. In the xPONENT<sup>®</sup> software, on the **Home** page, click **Probe and Heater** under **Daily Activities**. The **Probe & Heater** tab opens.
- 2. Remove the clear plastic shield that covers the sample probe area.
- 3. Click **Eject** in the xPONENT software, to eject the plate carrier.
- 4. In a 96-well microtiter plate where overall height is no more than 19 mm (0.75 inches), place the appropriate alignment tool in the plate:
  - For a standard plate with flat bottom wells stack two of the larger (5.08 mm diameter) alignment discs into the selected well.
  - For a filter bottom plate stack three of the larger (5.08 mm diameter) alignment discs into the selected well.
  - For a half-volume plate with flat-bottom wells stack two of the smaller (3.35 mm diameter) alignment discs into the selected well.
  - For a round-bottom (U-bottom) plate stack two of the smaller (3.35 mm diameter) alignment discs into the selected well.
- 5. Verify that the microtiter plate is not warped. Warped plates can lead to incorrect probe height adjustment.
- 6. Place the plate on the plate holder with **A1** in the top left corner.
- 7. Click Retract, in the xPONENT software, to retract the plate carrier.
- 8. Loosen the probe adjustment on the probe holder 1/3 to 1/2 turn. Pull the sample probe upward until it touches the top of the adjustment slide. Tighten the probe adjustment screw.
- 9. Click Move Probe Down, in the xPONENT software, to lower the sample probe.
- 10. Gently loosen the probe adjustment screw. Push the probe down until it just touches the top of the alignment discs or sphere.
- 11. Tighten the probe adjustment screw.

NOTE: Use caution not to move the probe up accidentally when tightening the probe adjustment screw.

- 12. Open the Luminex<sup>®</sup> XYP<sup>™</sup> window and move the probe up and down to ensure the probe is not too low and it does not hit the bottom of the plate.
- 13. Click Move Probe Up, in the xPONENT software.
- 14. Replace the plastic shield that covers the sample probe area.
- 15. Click **Eject** to eject the plate holder. Remove the alignment tools from the plate. NOTE: When you adjust and save the probe height settings under a plate name, the plate name retains the adjustment.
- 16. Click **Retract** to retract the plate carrier.
- 17. Enter a name for the plate in the **Plate Name** field.

**NOTE:** When you adjust and save the probe height settings under a plate name, the plate name retains the adjustment.

## **Obtaining Your License Key**

 Find the serial number located on the back of your instrument. To locate through your software, click on Maintenance > System Info.

NOTE: If the serial number is not listed, verify that the instrument is powered on and showing as connected in the xPONENT software.

2. Locate the expired trial license key. (Example: ABC12-DEF34-GH J56-KLM78-NPQ91-RSTO-UVW23) NOTE: The license key will not include the letter I or the letter O.

Contact Luminex Support with both serial number and key at **support@luminexcorp.com** or by calling (877) 785-2323.

#### **Applying Your New License Key**

- 1. Navigate to **Admin > Licensing** tab.
- 2. Click License (bottom right corner of window).
- 3. Copy and paste the new key into the License Code field. The License File field remains blank.
- 4. Click **OK**. This closes xPONENT<sup>®</sup>, applies the license, and restarts xPONENT.

If you have any issues with the new license, please contact Luminex Support at **support@luminexcorp.com** or by calling (877) 785-2323.

#### Don't forget to visit the Luminex Customer Center online at www.luminexcorp.com.

The Luminex Customer Center is a great resource for:

- Knowledge articles
- Viewing order history
- Creating a case
- Checking order status
- Viewing videos for troubleshooting
- Registering and completing training

#### Visit our website and follow the steps below to get started:

- Hover over the Customer Center tab
- Click on Self-help Center
- Click Register



## Please print out a copy and keep next to your instrument for quick reference.



## For additional support, please visit: www.luminexcorp.com

\*For Research Use Only. Not for use in diagnostic procedures

\*\*For In Vitro Diagnostic Use. Products are region specific and may not be approved in some countries/regions. Please contact Luminex at support@luminexcorp.com to obtain the appropriate product information for your country of residence.

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#### HEADQUARTERS

#### UNITED STATES

+1.512.219.8020 www.luminexcorp.com

#### EUROPE +31 (0)73 800 1900 info@luminexcorp.com europe@luminexcorp.com

www.luminexcorp.eu

CANADA +1.416.593.4323 info@luminexcorp.com www.luminexcorp.com

CHINA +86.21.8036.9888 infocn@luminexcorp.com www.luminexcorp.com

JAPAN +81.3.5545.7440 infoip@luminexcorp.com www.luminexcorp.com