

Luminex® 200™ 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® 200™ 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® Sheath Fluid, 20 L | 40-50015 |
| Sheath 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® 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



Luminex® 200™ Calibration Kit

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



Luminex® 200™ Performance Verification Kit

FL 1 and FL 2

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

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™ 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® 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® XYP™ 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

1. 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-RST0-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®, 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.

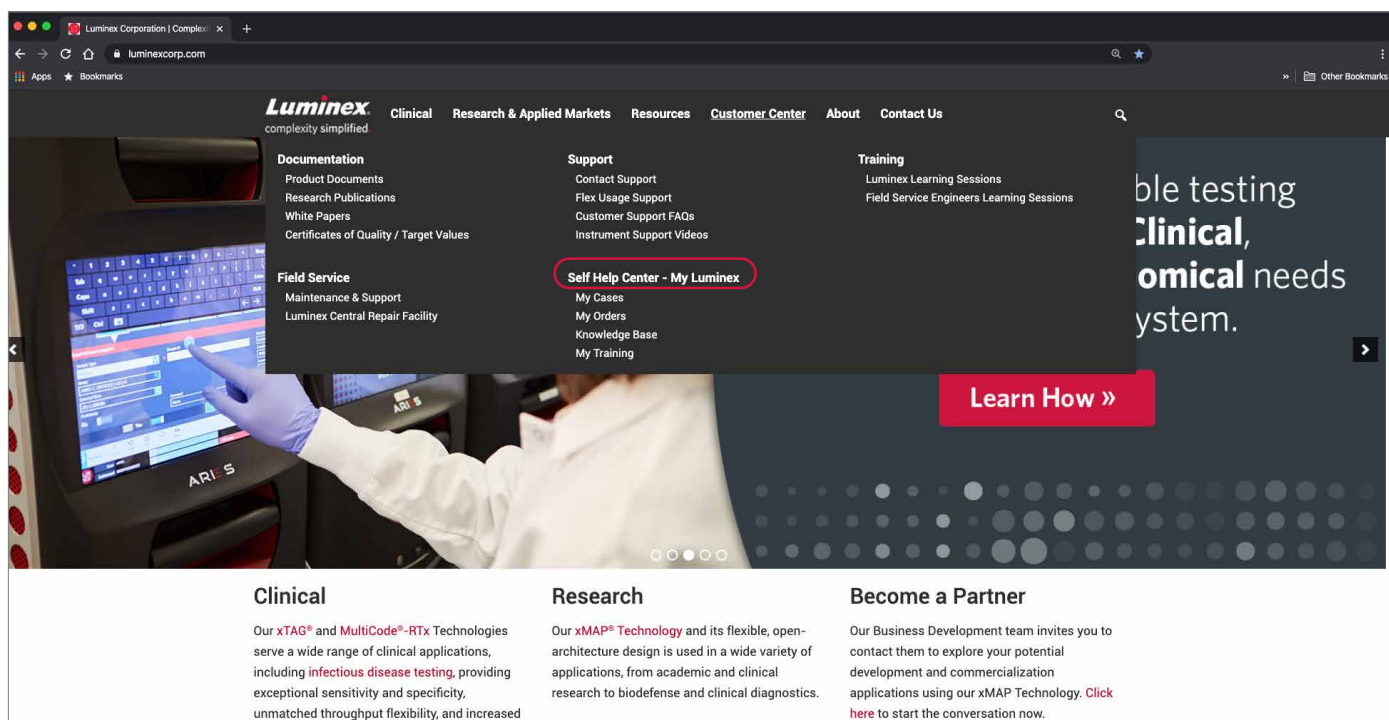
Don't forget to visit the Luminex Customer Center online at www.luminexcorp.com.

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.

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

complexity simplified.

*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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