

INTENDED USE

The instrument manufacturer recommends that the instrument be properly calibrated following installation, service or a change in temperature that exceeds $\pm 3^{\circ}\text{C}$. Calibration is also required as part of the routine maintenance of the instrument. The enclosed beads provide all that is necessary to calibrate the instrument and verify the calibration of the instrument.

CALIBRATION KIT COMPONENTS

The AtheNA Multi-Lyte® Instrument Calibration Kit provides the following components:

CAL-1	1. Classification Calibrator Microspheres
CAL-2	2. Reporter Calibrator Microspheres
CON-1	3. Classification Control Microspheres
CON-2	4. Reporter Control Microspheres
	5. Package insert with lot specific information (see data label) and instructions for use.

PRECAUTIONS

1. This product is for clinical, research, and laboratory use only.
2. Protect the Microspheres from light.
3. Do not freeze the contents of this kit.
4. Caution: These microspheres contain sodium azide as a preservative. Sodium azide has been reported to form lead or copper azides in laboratory plumbing, which may cause explosions on hammering. To prevent, rinse sink thoroughly with water after disposing of solution containing sodium azide.

STORAGE

 2°C–8°C	Store the kit and kit components. Protect the kit components from light.
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PROCEDURE

1. Verify that the computer, instrument, and XY platform are turned on.
2. On the opening screen of the AtheNA software, press the “Read Plate” button.
3. Fill the Sheath Fluid container* and ensure that the cap is tight.
4. Empty the waste container and add 50 to 100mL of household bleach to the empty container.
5. Place one half of an empty 1x8-well strip into column 1 of the plate frame (four wells).
6. Vortex the Calibrator/Control Microsphere vials to ensure homogeneity.
7. Place four to five drops (approximately 200µL) of CAL 1 in well A1 and five drops of CAL 2 in well B1.
8. Place four to five drops (approximately 200µL) of CON 1 in well C1 and five drops of CON 2 in well D1.
9. Place the plate on the XY Platform.
10. Fill the XY Platform Reservoir with sheath fluid.
11. Select the Calibration procedure from the Favorites Menu.
12. Push the “Finished” button on the first screen.
13. Push the “Start Plate” button.
14. The process will be completed in a short period. When complete, eject the plate and remove it.
15. If it is necessary to change the calibrator or control values, refer to the Luminex 100 IS instrument manual for guidance.

*Omit this step if your system utilizes a Sheath Delivery System.