

## *Turbidity Test with LaMotte 2020e Turbidimeter*

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING TESTS.  
**Wear gloves at this station.**

Calibration should be done once every day meter is used prior to beginning analysis.

### **Calibration**

1. Press **ON** to turn the meter on.
2. Press **OK** to select measure.
3. Fill clean sample tube with DI water to use as a blank. Pour down the sides of the tube to avoid creating bubbles. Wipe down sides to remove fingerprints and liquid with a Kim wipe.
4. Insert blank sample tube in meter with the notch on the tube lined up with the arrow on the meter. Close the lid.
5. Press **OK** to select Scan Blank. Remove tube.
6. Fill a second clean tube with the 10.0 NTU standard solution to the fill line. Pour down the sides of the tube to avoid creating bubbles. Cap the tube and wipe it for fingerprints and liquid.
7. Insert tube in the meter, lining up the notch on the tube with the arrow on the meter. Close the lid.
8. Press **OK** to Scan Sample. Observe the result versus the standard.
9. Press ↓ and then press **OK** to Calibrate.
10. Use the ↑ and ↓ keys to change the highlighted digits on the display to match the known standard. Press **OK** to accept a digit and move down to the next digit.
11. Press **OK** to accept the calibration and move on to reading samples.

### **Measurement**

1. Place the water sample to be measured on the stir plate, turn it on to stir, and place a stir bar in the sample. Let the sample mix before pouring it into a sample cell. The stir bar can be



removed from the cup using the big red magnet.

2. Fill a clean sample cell to the fill line with the sample to be tested. Pour down the sides of the sample cell to avoid creating bubbles. Cap the tube and wipe it with a Kimwipe to remove fingerprints and liquid.



3. Insert the tube into the instrument, lining up the notch on the tube with the arrow on the instrument. Close the lid.

4. Press **OK** to select Scan Sample. Record results.

5. Dump the water into the waste container and rinse the sample cell twice with DI water. The same sample cell can be used for all the samples.

6. Repeat steps 1-5 for each sample. It is not necessary to scan a new blank for each new sample.

7. Discard all used water into the waste container provided. Rinse the sample cells three times with distilled water and return to the turbidity meter case.

