

## Adding Red Barometer Fluid to the Eco-celli Barometer

**Getting Started:** We recommend using normal lab practices when handling the red fluid. Plastic gloves will prevent the hands from becoming stained or the skin from possibly being irritated. Glasses will prevent any fluid from possibly splashing into the eyes and causing irritation. Be sure to dispose of any calibration equipment or red fluid as chemical waste. The syringe with red fluid in it could be confused for blood so dispose of it properly as you would any other chemical waste. Do not flush down the drain.

Using the syringe, needle stub and thin plastic tubing from the calibration kit draw some red fluid from the bottle into the thin plastic tubing. Be careful not to spill any fluid, as it will stain anything it comes in contact with. You should wear plastic gloves to protect skin and goggles to protect eyes from any splashing.

Place a piece of plastic wrap between the barometer tube and the faceplate of the barometer. This is to prevent making a stain should you make contact with the faceplate of the barometer with the plastic tubing.

Now place the plastic tubing down the open end of your glass barometer tube until the plastic tubing is just to the top of the fluid level. Depress the syringe until the level of red fluid matches the current barometric pressure at your location.

Withdraw the plastic tubing from the barometer and let the barometer stabilize for an hour before checking to see that you have placed the proper amount of fluid into the barometer. Adjust if necessary by adding or removing fluid.

Once the barometer is calibrated you should not have to do it again unless you move the barometer to another significantly different altitude.

**Note:** Be sure that the black marks on the glass barometer and thermometer tubes line up with the 77 degree Fahrenheit (25C) line on the frame of the barometer. The glass tubes can move during transport or while handling during calibration and use. Place the calibration kit in a sealed plastic bag and store for future use.

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