

HOW TO MEASURE WATER

BUBBLES ARE EASY TO BE INTRODUCED WITH WATER AND LOW VISCOSITY SAMPLES

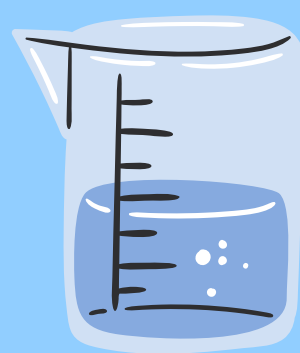


- Bubbles in the samples are sources. Also, small amount of bubble can be introduced when the tip of the pipette is inserted into the inlet of the chip.

PRECAUTIONS

We do not recommend using water as a standard because:

- Water sources vary from source to source- we always recommend a NIST traceable standard for reliability
- High surface tension can cause bubble formation or trap bubbles during a run



WHAT HAPPENS IF BUBBLES ARE TRAPPED? HOW WOULD I KNOW?



- Do not worry, bubbles won't damage your VROC chip
- You can check if there are bubbles through the R2 value (<0.996) or viscosity values showing negative or changing during measurements

RECOMMENDED PROTOCOL

1. Prime your flow channel with 1% Aquet
2. Run in AUTO mode (Reading should be 1 cP at 25 °C)
3. Load a new pipette with water/water based calibration fluid
4. Switch to ADVANCED MODE and set flow rate to 450 $\mu\text{L}/\text{min}$ (5,000 1/s)
5. Press run
6. Repeat a minimum of 3 times if you want to verify repeatability

