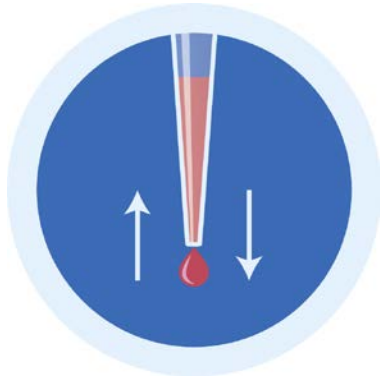




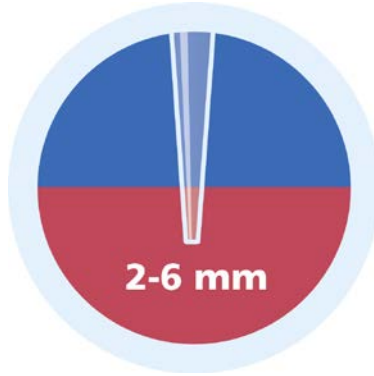
ARTEL

Trust Your Results

Top 3 Tips to Improve Your Pipetting Skills



Pre-Wet the
Pipette Tip



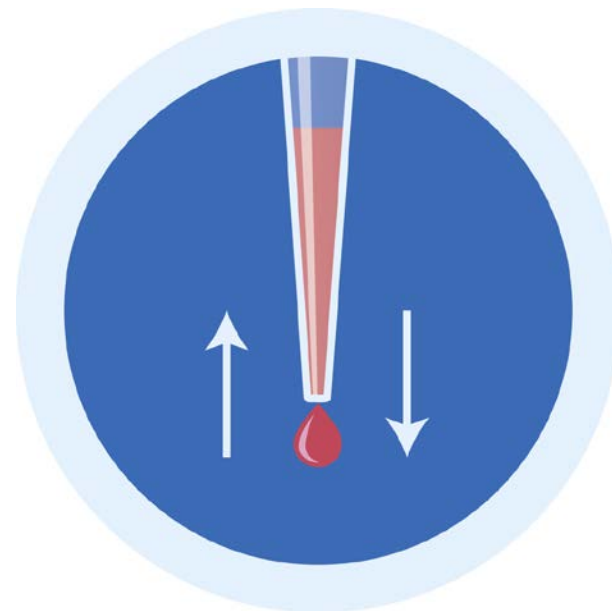
Immerse the Tip
To Proper Depth



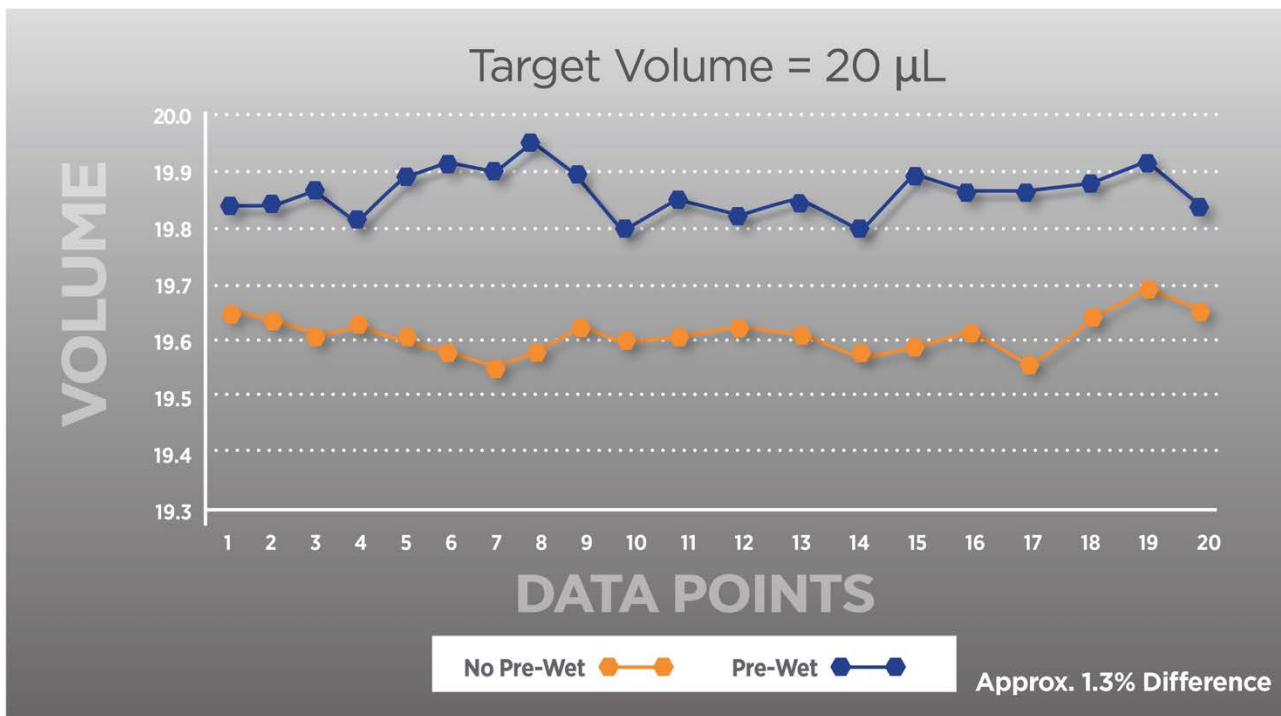
Pause Consistently
After Aspiration

Pre-Wet the Pipette Tip


- Each time a new tip is applied, the captive air inside the tip will have a lower humidity level
- Pre-wetting conditions the inside surface of the tip
- Humidity above the sample in the pipette tip is increased
- Sample volume variation due to evaporation is reduced
- Aspirate, remove tip from sample, and expel minimum of 3 times



Pre-Wet the Pipette Tip




Know your pipette!




19.75
19.84
19.92
19.95
19.92
19.95
19.95
19.93
19.94
19.96

Mean Volume: 19.91 μ L
Relative Inaccuracy: -0.45%
CV 0.33%



19.79
19.85
19.95
19.98
20.00
20.04
20.05
20.05
20.01
20.04

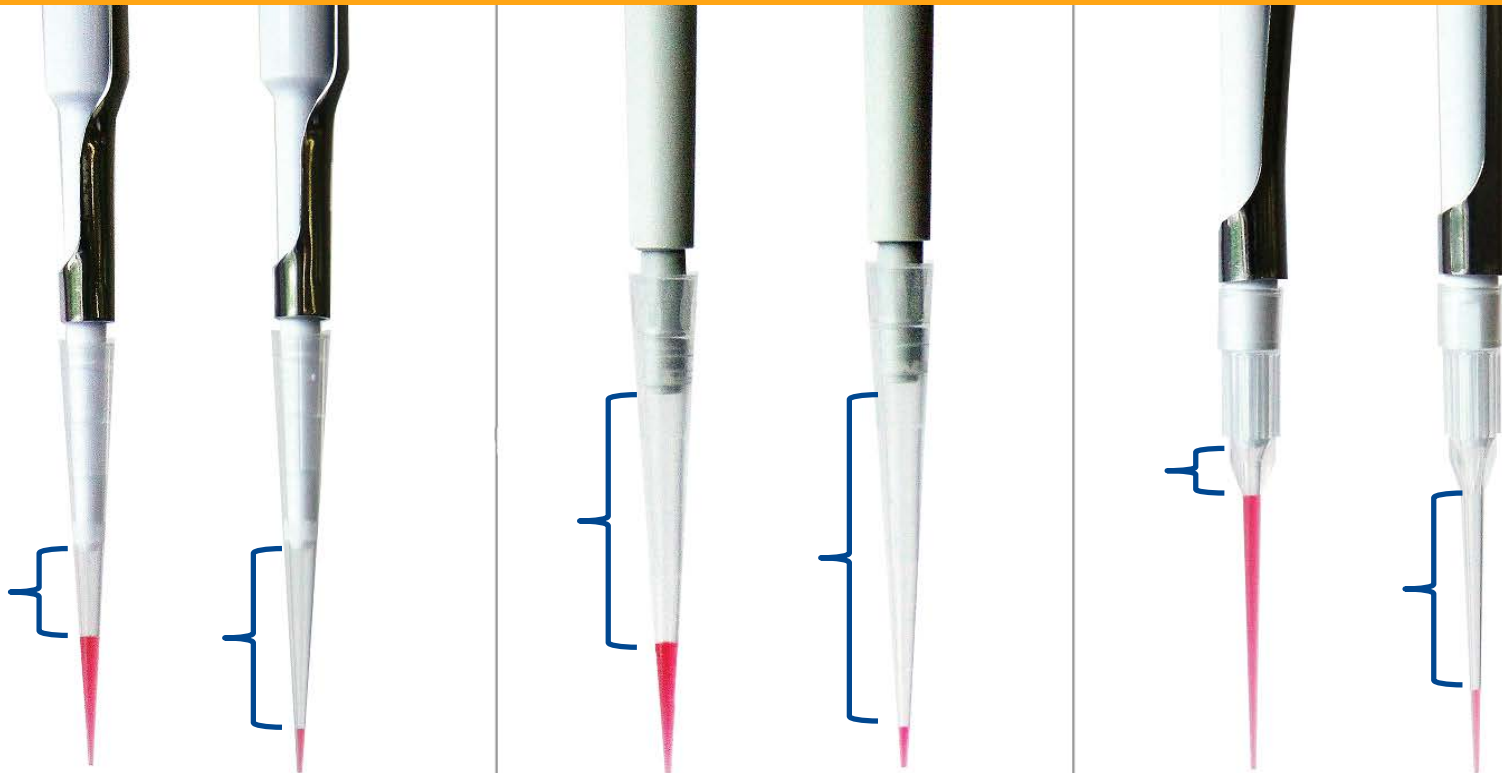
Mean Volume: 19.98 μ L
Relative Inaccuracy: -0.12%
CV 0.45%



20.08
20.13
20.12
20.15
20.15
20.14
20.15
20.12
20.15
20.13

Mean Volume: 20.13 μ L
Relative Inaccuracy: 0.66%
CV 0.11%

Captive Air Space

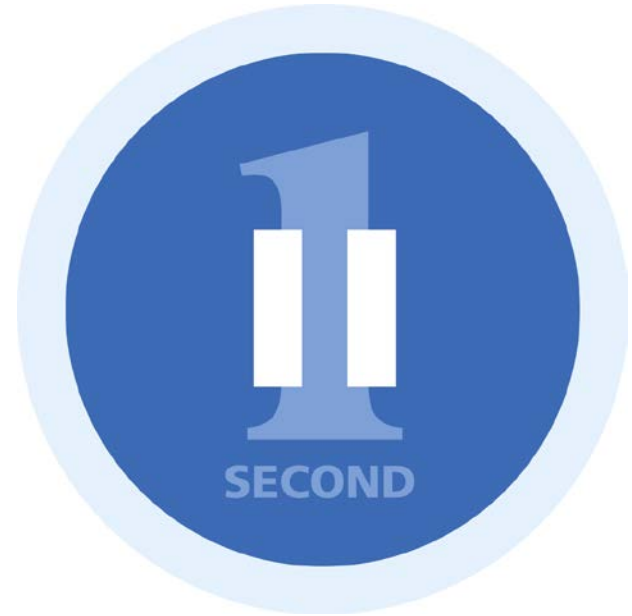


Pause After Aspiration

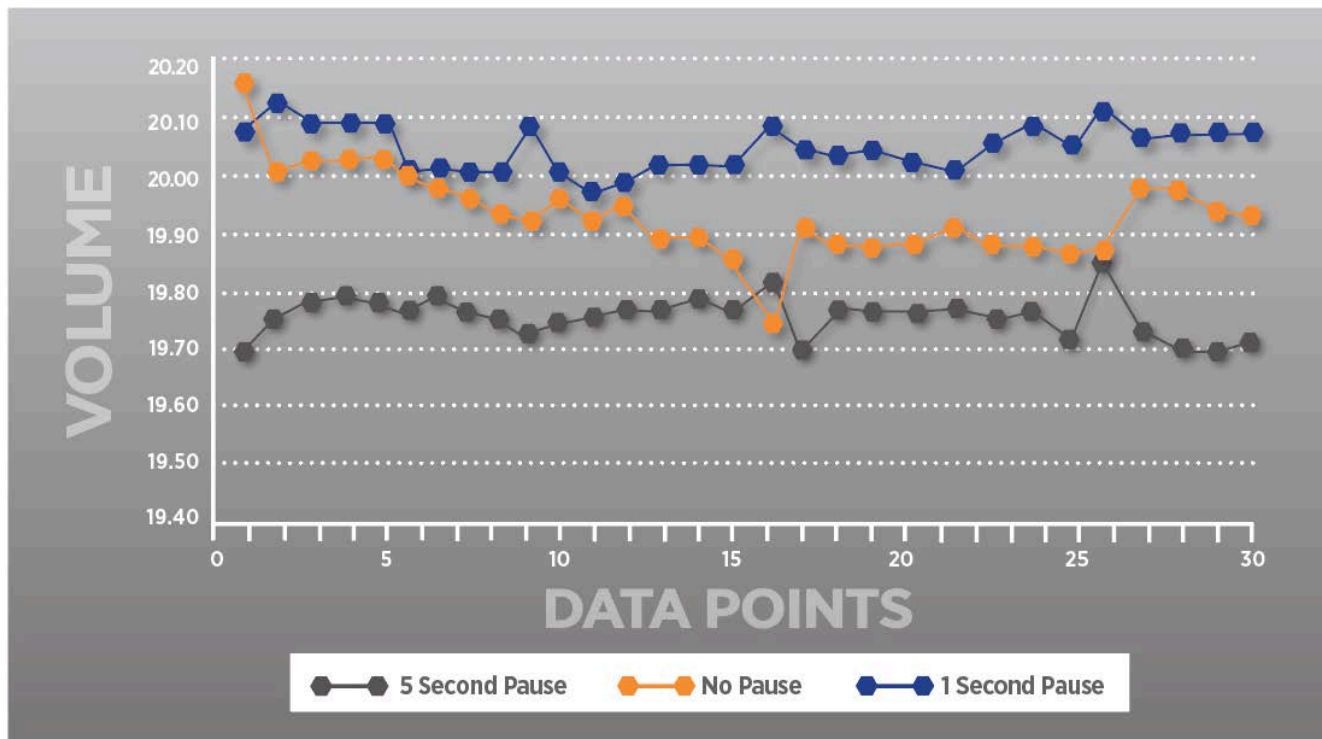
Liquid in tip continues to flow briefly after the plunger stops

Once plunger has been released, while tip is in the sample, pause for 1 second

Don't pause for too long



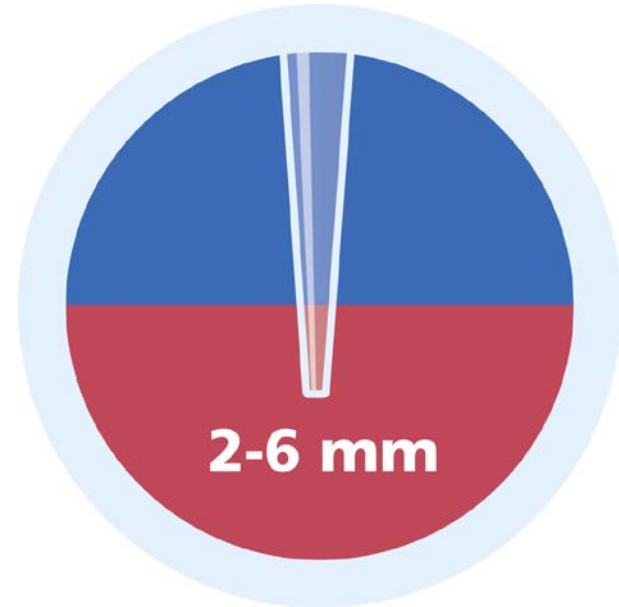
Pause Consistently After Aspiration



Immerse Tip to the Proper Depth

- **2 - 6 millimeters below meniscus**
- Stay clear of sides and bottom of container
- Try to minimize extra sample from clinging to outside of tip, or from being wicked away

- **ASTM Guidelines:**
- 1 – 100 μ L pipettes: immerse tip 2-3 mm
- 101 – 1000 μ L pipettes: immerse tip 2-4 mm
- 1.1 – 10 mL pipettes: immerse tip 3-6 mm



Immerse Tip to the Proper Depth

