

Certificate ID: **ISO 10 SC****Device Details**

Device ID: 20B16995
Serial Number: 20B16995
Description: Brand Transferpette S 100-1000uL
Method: 10 SAMPLES
Test Plan: 1000 uL SC LMH
Operator: Mike Beavers

Environmental Factors

Air Temperature: 21.00 °C
Barometric Pressure: 30.29 inHg
Relative Humidity: 47 %
Liquid Density: 0.99800
Air Density: 0.00121
Z Factor: 1.00307

Certificate of Calibration

Customer: ABC SCIENTIFIC
Contact: DR SMITH
Location: 200 MAIN STREET
Address: WASHINGTON DC
20032 D

Calibration Date: 10-Jul-2023**Calibration Type:** Pipette Calibration

Quality Calibrations Inc.



27 Sabal Drive
Punta Gorda FL 33950
Phone: 877-747-3883

Status: Passed
Next Due: 31-Jan-2024
Interval: 6 months

Comment:

Measurement Standards

Device ID	Description	Serial Number	Next Calibration
1118311229	Mettler AG 245	1118311229	30-Jun-2024
221461525	Digital Barometer	221461525	19-Apr-2024
THERMOMETER PRS	Enviro-Safe	PRS-T1	31-Mar-2025

Maintenance

☒ PM SERVICE ☐ Replaced Friction Ring ☐ Replaced Piston ☐ Replaced Shaft ☐ Supplemental Parts

As Calibrated

Summary Statistics				Accuracy %				Precision %				Status	Sample Volumes (µL)										Status
1000.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Actual	Target	Actual	Target		1	2	3	4	5	6	7	8	9	10	
Ch 1	998.79	1.09	0.82	0.121	0.800	0.110	0.300					Passed	996.96	999.06	997.45	998.07	999.39	1000.06	999.50	998.94	1000.25	998.18	Passed
500.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Passed	1	2	3	4	5	6	7	8	9	10	Passed
Ch 1	499.91	0.31	0.48	0.018	1.600	0.063	0.600					Passed	500.03	500.53	499.64	499.86	499.75	499.48	499.75	500.23	500.08	499.73	Passed
100.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Status	1	2	3	4	5	6	7	8	9	10	Status
Ch 1	99.97	0.16	0.45	0.029	8.000	0.163	3.000					Passed	100.20	100.16	100.07	99.86	100.01	99.99	99.79	100.11	99.81	99.75	Passed

Statement of Traceability

This certificate has been issued in accordance with QCI SOP QACCRED and ISO 8655-2 Specifications. This statement certifies that this calibration has been performed with instruments and standards traceable to SI units through NIST or equivalent National Metrology Institute. This certificate shall not be reproduced except in full, without written approval of the laboratory. These results relate only to item calibrated and the results apply to sample as received. QCI uses a simple acceptance approach to the TUR. Customer to determine if the TUR Accuracy ration (ratio over uncertainty) is acceptable.



Measurement
Uncertainties are
determined using the
factor of k=2 at a 95%
confidence level.

Completed by: Mike Beavers**Date:** July 10, 2023**Reviewed by:** Nicole Simpson**Date:** July 20, 2023

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ISO 17025:2017 Certified Certificate AC 1347