

Certificate ID: **ISO 10 SC AS FOUND & AS CALIBRATED****Device Details**

Device ID: QH36044
Serial Number: QH36044
Description: FINN NOVUS 100
Method: 10 SAMPLES
Test Plan: ISO 100 SC
Operator: Mike Beavers

Environmental Factors

Air Temperature: 21.00 °C
Barometric Pressure: 30.2 inHg
Relative Humidity: 46 %
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

Calibration Date: 05-Jun-2023
Calibration Type: Pipette Calibration

Quality Calibrations Inc.



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

Status: Passed
Next Due: 31-Dec-2023
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	30-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)									
100.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target		1	2	3	4	5	6	7	8	9	10
Ch 1	100.03	0.10	0.44	0.028	0.800	0.103	0.300	Passed	100.12	100.05	99.94	99.99	100.21	99.86	100.03	100.14	99.97	100.01
50.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Status	1	2	3	4	5	6	7	8	9	10
Ch 1	49.97	0.08	0.44	0.050	1.600	0.167	0.600	Passed	50.07	50.03	49.98	49.90	49.83	49.87	49.95	49.99	50.04	50.06
10.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Status	1	2	3	4	5	6	7	8	9	10
Ch 1	9.99	0.02	0.43	0.094	8.000	0.183	3.000	Passed	9.96	10.00	9.99	10.01	9.98	10.00	9.97	9.99	10.02	9.98

As Found

Summary Statistics				Accuracy %		Precision %		Status	Sample Volumes (µL)									
100.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target		1	2	3	4	5	6	7	8	9	10
Ch 1	99.88	0.08	0.44	0.124	0.800	0.083	0.300	Passed	99.74	99.89	99.92	99.81	99.95	100.01	99.91	99.86	99.93	99.78
50.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Status	1	2	3	4	5	6	7	8	9	10
Ch 1	49.93	0.11	0.44	0.136	1.600	0.216	0.600	Passed	50.06	49.97	49.85	49.81	49.88	49.92	50.15	49.95	49.86	49.84

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 the simple acceptance approach to the TUR. Customer to determine if the TUR accuracy ratio (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:** June 5, 2023**Reviewed by:** Nicole Simpson**Date:** June 17, 2023

Certificate ID: QH36044

ISO 17025:2017 Certified Certificate AC 1347

As Found

Summary Statistics				Accuracy %		Precision %		Status	Sample Volumes (µL)									
10.00 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target		1	2	3	4	5	6	7	8	9	10
Ch 1	9.98	0.02	0.43	0.154	8.000	0.208	3.000	Passed	9.97	9.98	10.01	9.96	10.00	9.98	9.99	10.02	9.97	9.96

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