

Certificate ID: **F33811****Certificate of Calibration**

Quality Calibrations Inc.

**Device Details**

Device ID: 102-444
Serial Number: F33811
Description: Corning Lambda Plus 20
Method: ISO Single Channel
Test Plan: CATALENT SC 20
Operator: Judy Nissley

Customer: Sample Customer

Contact: Sample
Location: On Site
Address: Street
City State

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

Status: Passed**Next Due: 30-Apr-2024****Interval: 6 months****Environmental Factors**

Air Temperature: 21.20 °C
Barometric Pressure: 30.17 inHg
Relative Humidity: 62 %
Liquid Density: 0.99795
Air Density: 0.00120
Z Factor: 1.00311

Calibration Date: 03-Oct-2023**Calibration Type: Pipette Calibration**

Comment: No Adjustment necessary, 'As found' data serves as 'As left' data.

Measurement Standards

Device ID	Description	Serial Number	Next Calibration
BALANCE	METTLER XS205DU	B130181039	30-Jun-2024
BAROMETER	Digital Barometer	221461521	19-Apr-2024
THERMOMETER	DURAC	J623	30-Jun-2026

As Found

Summary Statistics				Accuracy %		Precision %		Status	Sample Volumes (µL)				
20.0 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target		1	2	3	4	5
Ch 1	19.99	0.02	0.26	0.070	1.000	0.121	0.500	Passed	20.01	19.97	19.95	20.00	19.99
10.0 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Status	1	2	3	4	5
Ch 1	9.98	0.03	0.26	0.231	2.000	0.262	1.000	Passed	9.98	9.95	10.01	9.99	9.95
2.0 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target	Status	1	2	3	4	5
Ch 1	2.02	0.02	0.27	0.923	10.000	1.186	5.000	Passed	2.01	2.05	2.02	1.99	2.04

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 is 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.

ISO 17025:2017 Certified Certificate AC 1347Completed by: Judy NissleyDate: October 3, 2023Reviewed by: Beverly HeibergerDate: October 6, 2023