



CJ11159



CAL-M002986

Calibration Done By : ACE Pipettes LLC, Cypress, TX

Client Information

Customer Name MD Anderson Cancer Center
 Street Address 7455 Fannin St
 City-Zip Code Houston
 Customer Dept Pediatrics Research

Laboratory Test Conditions- As Left

Env. Temp (°C) 26.0
 Env. Pr (kPa) 101.3
 Humidity(% RH) 47.0
 Z- Factor 1.0043

Client Pipette Details: -Pipette 1 Ch. Thermo Fisher Finnpiptette F1 Variable 1Ch- 10-100 uL

ID Marks SCR 1.2114 PCR Hood RNA Test Date 07/29/2019
 S/L No: CJ11159 Next Schedule date 07/28/2020

Laboratory Test Equipment and Standards

PID	Description	S/L No:	Last Cal Date	Next Cal Date
AM000842	Weight Standard	08496	07/12/2019	07/31/2020
AM000841	Mettler Balance XP205DR	B043079758	10/24/2018	10/31/2019
AM001035	RH Meter/Thermometer	181631804	10/02/2018	10/02/2020

As Left Data

	100uL	50uL	10uL
	100.04	49.58	10.04
	100.02	49.87	10.12
	99.98	49.82	10.08
	99.90	49.90	10.14
	100.07	49.67	10.16
Mean (As Is)-mg	100.002	49.768	10.108
Z- Factor	1.0043	1.0043	1.0043
Mean Corrected-uL	100.432	49.982	10.152
Target	100.0	50.0	10.0
Accuracy (% Diff)	0.432	0.036	1.520
Inaccuracy Tolerance	<=0.8	<=1.2	<=3
Accuracy Summary	Pass	Pass	Pass
SD Corrected	0.066	0.138	0.049
Precision (%CV)	0.066	0.276	0.483
Imprecision Tolerance	<=0.2	<=0.4	<=1
Imprecision Summary	Pass	Pass	Pass
Test Summary	Pass	Pass	Pass

Calibration Notes:

This report serves as report toward compliance with GMP/GLP, ISO, FDA and other regulatory requirements. This pipette was calibrated gravimetrically using Standard Operating Procedures. This report certifies that this pipette met the specification on the date shown here for the calibration date. The calibration of the balance and standard weights are traceable to NIST. The gravimetric data was measured in mg or g and then converted to ul or ml using the correction factor from ISO 8655 Standard and accounted for density of distilled water. The Pass/Fail decision reported in this report has not been accounted for measurement uncertainty. This report shall not be reproduced except in full without written permission from our company..

Certificate ID No
 PID

CAL-M002986
 AM001091

Certificate Date 07/29/2019
 Calibration Done By Kaushika Banerjee