

Volume Verification Report for 1000 µl CO-RE 96 Probe Head

Instrument Name:	ML_STAR	Date: 2022-12-07
Instrument Serial No.:	403F	Time: 12:53
Instrument User Software Version:	4.5.0.5217 FVK2: 1020/04	
Location:	SSI TCDK	Temperature [°C]: 20.4
Operator:	Fredrik Svensson	Relative Humidity [%]: 31.6
Reason for Verification:	PM2	
Report File:	Report_Vol_Ver_1000ul96erPipHead_403F_202212071253.pdf	

Test Equipment:		
Balance Serial No.:	B929969340	Valid until: 2023-03-18
Calibration Weight No.:	C132337082	Valid until: 2023-08-16
Actual Weight [g]:	20.00004	Calibration Weight [g]: 20 +/- 0.00034
Reader Serial No.:	1067	Validation: passed
Reader Checkplate Serial No.:	1359	Valid until: 2023-08-08
Ambient Temperature and Humidity Measuring Device Serial No.:	83724023	Valid until: 2023-10-04
Reagent Kit Lot No.:	M0470	Valid until: 2023-08-10

Measurements:		
Testing Volume [µl]:	10	1000
Number of Samples:	96	96
Used Tip Type:	10µl Low Volume Tip	1000µl High Volume Tip
Liquid Density [g/cm ³]:	1.0007	1.0006
Mean Volume [µl]:	9.474	982.9
Standard Deviation [µl]:	0.045	4.6
Trueness (spec.) [%]:	<= +/- 8.00	<= +/- 2.50
Trueness (actual) [%]:	-5.26	-1.71
Precision (spec.) [%]:	<= 5.00	<= 2.00
Precision (actual) [%]:	0.47	0.47
Minimal value [µl]:	9.311	972.0
Maximal value [µl]:	9.581	994.8
Test Result:	passed	passed

Process Status: passed

Summary of channels: passed passed

Operator: Fredrik Svensson Date: 2022-12-07 Signature: Frsv

Test results of channels:**Testing Volume: 10µl**

	1	2	3	4	5	6	7	8	9	10	11	12
A	9.52	9.39	9.45	9.45	9.48	9.48	9.48	9.50	9.46	9.46	9.47	9.46
B	9.44	9.44	9.41	9.48	9.44	9.45	9.43	9.48	9.48	9.48	9.45	9.45
C	9.31	9.49	9.48	9.47	9.46	9.48	9.48	9.45	9.46	9.42	9.49	9.45
D	9.49	9.50	9.44	9.49	9.52	9.43	9.38	9.47	9.42	9.49	9.49	9.46
E	9.48	9.47	9.43	9.45	9.44	9.45	9.43	9.49	9.37	9.42	9.50	9.43
F	9.49	9.54	9.44	9.48	9.52	9.48	9.43	9.46	9.53	9.54	9.47	9.44
G	9.57	9.48	9.41	9.44	9.53	9.54	9.45	9.49	9.51	9.43	9.50	9.52
H	9.56	9.55	9.51	9.52	9.58	9.51	9.52	9.51	9.49	9.53	9.53	9.55

Testing Volume: 1000µl

	1	2	3	4	5	6	7	8	9	10	11	12
A	980.6	978.7	988.7	992.1	986.4	989.1	990.1	991.0	986.7	983.1	986.3	994.8
B	984.7	975.1	985.5	981.4	987.4	989.0	990.5	983.6	986.9	993.5	987.6	991.3
C	982.3	977.4	983.0	988.4	985.3	984.3	979.9	981.6	988.4	983.7	981.7	985.1
D	980.8	973.2	977.6	980.2	983.2	983.5	983.0	981.8	980.7	977.4	982.6	984.2
E	976.6	982.2	978.0	976.4	985.5	978.9	982.8	987.3	983.5	982.2	981.6	978.8
F	979.8	976.8	977.7	979.3	976.3	976.3	983.6	987.9	985.6	978.5	978.8	982.5
G	976.0	982.3	975.9	977.5	985.4	987.3	990.7	986.1	981.4	979.8	972.0	981.6
H	980.4	979.7	982.6	984.4	980.2	983.8	982.1	989.6	985.4	977.6	983.3	981.2