

pipettes.com

A TRANSCAT Company

Level 2 Calibration

Ser	vice Docun	nentation		
	Client Inform	nation		
Compan	y Pipettes.co	m A Transcat Company		
Addres	s 77 Main Stre	77 Main Street		
	Hopkinton, I	Hopkinton, MA 01748		
Phon	e 5084357301	5084357301		
	Client Instru	iment		
Manufacture	er GILSON			
Mode	el Pipetman P	Pipetman P-100		
Serial	# X99992X	X99992X		
ID/Use	er Sample	Sample		
Lab	oratory Test (Conditions		
Temperat	ure (19-24 °C)	21		
Relative Hum	idity (45-75%)	51		
Bar. F	Pressure (kPa)	101.2		
Water Den. (gm/ml)		0.9969		
Density Correction (z-factor)		1.0031		
Water Conductivity (µ S)		1.59		
Evaporation Rate (mg)		0.002		
Lab	oratory Test E	quipment		
Test Balance Serial #		1-1119423483		
Test Balance Model		#1-MX5		
Test Balance Readability (mg)		0.001		
Test Balance NIST Cert. Date		24/Oct/2014		
Test Balance NIST	Cert Due Date	31/Oct/2015		
	Replacement	Parts		
✓ O-Ring	Batte	Battery		
✓ Seal	Shaft	Shaft/Nozzle Filter(s)		
Friction Ring	1-1	☐ Tip Ejector		
Shaft/Nozzle	Multi-	Multi-Channel Tipcone		
Plunger button	Hous	☐ Housing Screw		

Snatt/Nozzie	iviuiti-Channel Tipcone
Plunger button	Housing Screw
Plunger Button	Cap Other (see Comments)
Calibration mec	hanism was adjusted
Qua	lity Control Authorization
QC Reviewer	XX
QC Date	25/Feb/2015
Signature	m [a_

The calibration results published in this certificate were obtained gravimetrically using Grade 3 purified water, equipment manufacturer or validated substitute tips, and ISO8655 compliant test equipment that are traceable to NIST and through NIST to the International System of Units (SI). TTE certifies that the above measuring device meets or exceeds all measurement tolerances, unless otherwise noted. TTE prohibits the reproduction of this document, except in its entirety.

Mike Anema, Lab Manager

	Certificate ID
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	Comments

Service Information Service Date 25/Feb/2015 Certificate ID # 02252015-X99992X Test Technician YY Next Due Date 25/May/2015

As Found Data

'As Found' Test Data Unavailable With Level 2 Service

	As Left Data			
Test Volumes (μL)	10	50	100	
1	10.02	49.78	99.74	
2	10.00	49.85	99.78	
3	10.02	49.82	99.72	
4	10.03	49.79	99.83	
	10.03	49.82	99.79	
Mean (mg)	10.02	49.81	99.77	
Density Corr.	1.0031	1.0031	1.0031	
Mean (ul)	10.05	49.96	100.08	
Accuracy (% Dev)	0.50	-0.08	0.08	
Inaccuracy Tolerance	3.5%	0.8%	0.8%	
Precision (CV%)	0.12	0.06	0.04	
Imprecision Tolerance	1.0%	0.24%	0.15%	
est Uncertainty (± uL / ±%)	0.018 / 0.18%	0.035 / 0.07%	0.127 / 0.13%	
Test Result	PASS	PASS	PASS	

PASS grade denotes that tolerances have been met according to OEM specifications, exclusive of measurement uncertainty. The risk for reporting a false PASS result is calculated to be < 2%. The reported expanded uncertainty value uses a coverage factor k=2 to a coverage probability of approximately 95%.

Procedure Referenced: PipettesCS0113.1

V2.23

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