

Calibrate, Inc.

2520 Stanwell Dr. Suite 100
 Concord, CA 94520
 ph.800.253.7064 fx.800.238.2268

CALIBRATION CERTIFICATE

PIPETTE INFORMATION	
SERIAL #	A123456B
SIZE (µl)	10
MANUFACTURER	Gilson
LOCATION	CompanyName
DEPARTMENT	QA
CONTACT	Smith, J.
RESTRICTION	GLP
CALIBRATION DATE	01-Nov-2010
CALIBRATED BY	PS
CALIBRATION DUE	01-May-2011
DATA TYPE	AS FOUND
ENVIRONMENTAL CONDITIONS	
TEMPERATURE IN F	70.00
RELATIVE HUMIDITY IN %	50.00
BAROMETRIC PRESSURE INCHES	30.00
AIR DENSITY	0.0012030425621
Z FACTOR	1.0029828772
MEASUREMENT & TEST EQUIP. INFO	
HERMO-HYGROMETER SERIAL #	90917310
CALIBRATION DUE	30-Nov-2010
BALANCE ID	METTLER
BALANCE MODEL	AG245
BALANCE SERIAL #	1117023184
CALIBRATION DUE	28-Feb-2011
WEIGHT SET SERIAL #	1MN2
CALIBRATION DUE	31-Aug-2012
PARTS REPLACED	
SEAL	NO
O RING	NO
PISTON	NO
SHAFT	NO
TENSION RING	NO
REPAIR	NO
ADJUST CALIBRATION	YES
PREVENTIVE MAINT.	NO

TOLERANCE LIMITS				SERVICE INFORMATION	
VOLUME ul	INACCURACY %	+/- ml	IMPRECISION %	SOP Followed	Level 6 SOP 125-6 DATA TYPE:AS FOUND
2.5	5.00	0.00013	5.00		
10	3.00	0.00030	3.00		

CDS 2.1.28

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AS FOUND CALIBRATION DATA						STATISTICAL ANALYSIS
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	MEAN (ml)	
1	0.00233	0.00234	0.00963	0.00966	0.00237	
2	0.00236	0.00237	0.00971	0.00974	0.00972	
3	0.00241	0.00242	0.00974	0.00977	0.00004	
					+/- ml (Guardband)	
					INACCURACY %	
					IMPRECISION %	
					Proc. Uncert.(k=2)	
					0.00008	
					0.00011	
CALIBRATION RESULTS						
					ACCURACY	FAIL
					PRECISION	PASS
					Within k=2 95% Confidence	NO

INSTRUMENT STATUS	FAIL
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Technician: _____

Approved By: _____

Date: _____

Note:

This calibration was conducted using standards traceable to SI through N.I.S.T. This document may not be reproduced except in full.



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CALIBRATED BY	PS
CALIBRATION DUE	01-May-2011
DATA TYPE	AS LEFT
ENVIRONMENTAL CONDITIONS	
TEMPERATURE IN F	70.00
RELATIVE HUMIDITY IN %	50.00
BAROMETRIC PRESSURE INCHES	30.00
AIR DENSITY	0.0012030425621
Z FACTOR	1.0029828772
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PARTS REPLACED	
SEAL	YES
O RING	NO
PISTON	NO
SHAFT	NO
TENSION RING	NO
REPAIR	NO
ADJUST CALIBRATION	YES
PREVENTIVE MAINT.	YES

TOLERANCE LIMITS				SERVICE INFORMATION	
VOLUME µl	INACCURACY %	+/- ml	IMPRECISION %	SOP Followed	Level 6 SOP 125-6 DATA TYPE: AS LEFT
2.5	5.00	0.00013	5.00		
7.5	3.00	0.00023	3.00		
10	3.00	0.00030	3.00		

AS LEFT CALIBRATION DATA							CALIBRATION RESULTS				STATISTICAL ANALYSIS
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	MEAN (ml)	0.00249	0.00747	0.00995	
							+/- ml (Guardband)	0.00005	0.00015	0.00020	
							INACCURACY %	0.42386	0.34362	0.54422	
							IMPRECISION %	1.59642	0.46871	0.48154	
							Proc. Uncert.(k=2)	0.00008	0.00007	0.00010	
							ACCURACY	PASS	PASS	PASS	
							PRECISION	PASS	PASS	PASS	
							Within k=2 95% Confidence	YES	YES	YES	
1	0.00251	0.00252	0.00745	0.00747	0.00994	0.00997					
2	0.00246	0.00247	0.00742	0.00744	0.00998	0.01001					
3	0.00248	0.00249	0.00751	0.00753	0.00986	0.00989					
4	0.00253	0.00254	0.00743	0.00745	0.00988	0.00991					
5	0.00243	0.00244	0.00745	0.00747	0.00992	0.00995					

INSTRUMENT STATUS	PASS
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Technician: _____

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