

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

CALIBRATION CERTIFICATE

PIPETTE INFORMATION	
SERIAL #	A1234567C
SIZE (µl)	1200
MANUFACTURER	Matrix 12 CH
LOCATION	CompanyName
DEPARTMENT	QC
CONTACT	Smith, J.
RESTRICTION	GMP
CALIBRATION DATE	01-Nov-2010
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
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	NO
PREVENTIVE MAINT.	YES
INSTRUMENT STATUS	
PASS	

TOLERANCE LIMITS				SERVICE INFORMATION	
VOLUME µl	INACCURACY %	+/- ml	IMPRECISION %	SOP Followed	Level 5 SOP 125-5 / DATA TYPE: AS LEFT
300	3.00	0.00900	3.00		
900	3.00	0.02700	3.00		
1200	3.00	0.03600	3.00		

AS LEFT CALIBRATION DATA CHANNEL 1						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

AS LEFT CALIBRATION DATA CHANNEL 2						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

AS LEFT CALIBRATION DATA CHANNEL 3						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

AS LEFT CALIBRATION DATA CHANNEL 4						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

CALIBRATION RESULTS				
MEAN (ml)	0.30193	0.90285	1.20465	STATISTICAL ANALYSIS
+/- ml (Guardband)	0.00799	0.02569	0.03329	
INACCURACY %	0.64376	0.31686	0.38744	
IMPRECISION %	0.16720	0.07228	0.11243	
Proc. Uncert.(k=2)	0.00101	0.00131	0.00271	
ACCURACY	PASS	PASS	PASS	
PRECISION	PASS	PASS	PASS	
Within k=2 95% Confidence	YES	YES	YES	
MEAN (ml)	0.30193	0.90285	1.20465	
+/- ml (Guardband)	0.00799	0.02569	0.03329	
STATISTICAL ANALYSIS				
INACCURACY %	0.64376	0.31686	0.38744	STATISTICAL ANALYSIS
IMPRECISION %	0.16720	0.07228	0.11243	
Proc. Uncert.(k=2)	0.00101	0.00131	0.00271	
ACCURACY	PASS	PASS	PASS	
PRECISION	PASS	PASS	PASS	
Within k=2 95% Confidence	YES	YES	YES	
MEAN (ml)	0.30193	0.90285	1.20465	
+/- ml (Guardband)	0.00799	0.02569	0.03329	
INACCURACY %	0.64376	0.31686	0.38744	
IMPRECISION %	0.16720	0.07228	0.11243	

Technician: _____

Approved By: _____

Date: 01-Nov-2010

Note:

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PIPETTE INFORMATION	
SERIAL #	A1234567C
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MANUFACTURER	Matrix 12 CH
LOCATION	CompanyName
DEPARTMENT	QC
CONTACT	Smith, J.
RESTRICTION	GMP
CALIBRATION DATE	01-Nov-2010
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
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	NO
PREVENTIVE MAINT.	YES
INSTRUMENT STATUS	
PASS	

TOLERANCE LIMITS				SERVICE INFORMATION	
VOLUME µl	INACCURACY %	+/- ml	IMPRECISION %	SOP Followed	Level 5 SOP 125-5 / DATA TYPE: AS LEFT
300	3.00	0.00900	3.00		
900	3.00	0.02700	3.00		
1200	3.00	0.03600	3.00		

AS LEFT CALIBRATION DATA CHANNEL 5						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

AS LEFT CALIBRATION DATA CHANNEL 6						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

AS LEFT CALIBRATION DATA CHANNEL 7						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

AS LEFT CALIBRATION DATA CHANNEL 8						
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328

CALIBRATION RESULTS					STATISTICAL ANALYSIS
MEAN (ml)	0.30193	0.90285	1.20465		
+/- ml (Guardband)	0.00799	0.02569	0.03329		
INACCURACY %	0.64376	0.31686	0.38744		
IMPRECISION %	0.16720	0.07228	0.11243		
Proc. Uncert.(k=2)	0.00101	0.00131	0.00271		
CALIBRATION RESULTS					STATISTICAL ANALYSIS
ACCURACY	PASS	PASS	PASS		
PRECISION	PASS	PASS	PASS		
Within k=2 95% Confidence	YES	YES	YES		
MEAN (ml)	0.30193	0.90285	1.20465		
+/- ml (Guardband)	0.00799	0.02569	0.03329		
INACCURACY %	0.64376	0.31686	0.38744		
IMPRECISION %	0.16720	0.07228	0.11243		
Proc. Uncert.(k=2)	0.00101	0.00131	0.00271		
CALIBRATION RESULTS					STATISTICAL ANALYSIS
ACCURACY	PASS	PASS	PASS		
PRECISION	PASS	PASS	PASS		
Within k=2 95% Confidence	YES	YES	YES		
MEAN (ml)	0.30193	0.90285	1.20465		
+/- ml (Guardband)	0.00799	0.02569	0.03329		
INACCURACY %	0.64376	0.31686	0.38744		
IMPRECISION %	0.16720	0.07228	0.11243		
Proc. Uncert.(k=2)	0.00101	0.00131	0.00271		
CALIBRATION RESULTS					STATISTICAL ANALYSIS
ACCURACY	PASS	PASS	PASS		
PRECISION	PASS	PASS	PASS		
Within k=2 95% Confidence	YES	YES	YES		

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Technician: _____

Approved By: _____

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RELATIVE HUMIDITY IN %	50.00
BAROMETRIC PRESSURE INCHES	30.00
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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	NO
PREVENTIVE MAINT.	YES
INSTRUMENT STATUS	
PASS	

TOLERANCE LIMITS				SERVICE INFORMATION	
VOLUME µl	INACCURACY %	+/- ml	IMPRECISION %	SOP Followed	Level 5 SOP 125-5 / DATA TYPE: AS LEFT
300	3.00	0.00900	3.00		
900	3.00	0.02700	3.00		
1200	3.00	0.03600	3.00		

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AS LEFT CALIBRATION DATA CHANNEL 9							STATISTICAL ANALYSIS			
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	MEAN (ml)	0.30193	0.90285	1.20465
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599	+/- ml (Guardband)	0.00799	0.02569	0.03329
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468	INACCURACY %	0.64376	0.31686	0.38744
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328	IMPRECISION %	0.16720	0.07228	0.11243
							Proc. Uncert.(k=2)	0.00101	0.00131	0.00271
CALIBRATION RESULTS										
							ACCURACY	PASS	PASS	PASS
							PRECISION	PASS	PASS	PASS
							Within k=2 95% Confidence	YES	YES	YES
AS LEFT CALIBRATION DATA CHANNEL 10							STATISTICAL ANALYSIS			
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	MEAN (ml)	0.30193	0.90285	1.20465
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599	+/- ml (Guardband)	0.00799	0.02569	0.03329
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468	INACCURACY %	0.64376	0.31686	0.38744
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328	IMPRECISION %	0.16720	0.07228	0.11243
							Proc. Uncert.(k=2)	0.00101	0.00131	0.00271
CALIBRATION RESULTS										
							ACCURACY	PASS	PASS	PASS
							PRECISION	PASS	PASS	PASS
							Within k=2 95% Confidence	YES	YES	YES
AS LEFT CALIBRATION DATA CHANNEL 11							STATISTICAL ANALYSIS			
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	MEAN (ml)	0.30193	0.90285	1.20465
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599	+/- ml (Guardband)	0.00799	0.02569	0.03329
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468	INACCURACY %	0.64376	0.31686	0.38744
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328	IMPRECISION %	0.16720	0.07228	0.11243
							Proc. Uncert.(k=2)	0.00101	0.00131	0.00271
CALIBRATION RESULTS										
							ACCURACY	PASS	PASS	PASS
							PRECISION	PASS	PASS	PASS
							Within k=2 95% Confidence	YES	YES	YES
AS LEFT CALIBRATION DATA CHANNEL 12							STATISTICAL ANALYSIS			
SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	MEAN (ml)	0.30193	0.90285	1.20465
1	0.30110	0.30200	0.90020	0.90289	1.20240	1.20599	+/- ml (Guardband)	0.00799	0.02569	0.03329
2	0.30050	0.30140	0.90080	0.90349	1.20110	1.20468	INACCURACY %	0.64376	0.31686	0.38744
3	0.30150	0.30240	0.89950	0.90218	1.19970	1.20328	IMPRECISION %	0.16720	0.07228	0.11243
							Proc. Uncert.(k=2)	0.00101	0.00131	0.00271
CALIBRATION RESULTS										
							ACCURACY	PASS	PASS	PASS
							PRECISION	PASS	PASS	PASS
							Within k=2 95% Confidence	YES	YES	YES

Technician: _____

Approved By: _____

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