



Certificate # 2161.01
 version 1.6.11

PIPETTE INFORMATION

SERIAL #	R72721A
NOMINAL SIZE IN (ul)	200
MANUFACTURER	GILSON
DEPARTMENT	VRDL
LOCATION	ABC CORP
CONTACT	Smith, Jane
RESTRICTIONS	GLP
CALIBRATION DATE	23-Nov-2005
CALIBRATED BY	PS
CALIBRATION DUE	22-May-2006
TECH'S UNCERTAINTY (ul)	0.074202

ENVIRONMENTAL CONDITIONS

TEMPERATURE IN C	20.0
RELATIVE HUMIDITY IN %	40.2
BAROMETRIC P. IN mmHg	762.0
AIR DENSITY	0.001207616
Z FACTOR	1.002861126

MEASUREMENT & TEST EQUIP. INFO

HYGROMETER SERIAL #	L581102
CALIBRATION DUE	4-Feb-2006
BALANCE ID	METTLER
BALANCE MODEL	AG245
BALANCE SERIAL #	1117023184
CALIBRATION DUE	2-Apr-2006
WEIGHT SET SERIAL #	1MN2
CALIBRATION DUE	1-Oct-2006

PARTS REPLACED

SEAL	\$0.00	Y
O RING	N/A	
PISTON	N/A	
SHAFT	N/A	
TENSION RING	N/A	
REPAIR	N/A	
CALIBRATION ONLY	N/A	
PREVENTIVE MAINT.	\$39.00	Y

INSTRUMENT STATUS	PASS
--------------------------	-------------

TOLERANCE LIMITS

VOLUME ul	INACCURACY %	+/- g	FROM (g)	TO (g)	IMPRECISION %
50	3	0.00150	0.04850	0.05150	3
150	3	0.00450	0.14550	0.15450	3
200	3	0.00600	0.19400	0.20600	3

CALIBRATION DATA

SAMPLE	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)	WEIGHT(g)	VOLUME(ml)
1	0.05020	0.05034	0.14850	0.14892	0.19830	0.19887
2	0.04990	0.05004	0.15050	0.15093	0.19850	0.19907
3	0.05000	0.05014	0.14970	0.15013	0.19800	0.19857
4	0.04960	0.04974	0.14910	0.14953	0.19890	0.19947
5	0.04930	0.04944	0.14940	0.14983	0.19910	0.19967

STATISTICAL ANALYSIS

MEAN VOLUME(ml)	0.04994	0.14987	0.19913
SD	0.00035	0.00074	0.00045
INACCURACY	0.11503	0.08829	0.43595
IMPRECISION	0.70995	0.49536	0.22410

STATUS

ACCURACY	PASS	PASS	PASS
PRECISION	PASS	PASS	PASS

NOTE:

Technician _____

Approved By _____ Date: _____

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