

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER CP134-00081-840	IDENTIFICATION MC-031A
FOR Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER 81
TEST INSTRUMENT Pipette	PURCHASE ORDER #
MAKE Eppendorf	PROCEDURES FOLLOWED MC-031A rev. 1
MODEL Research (100 to 1000) µL	
RANGE (100 to 1000) µL	
CUSTOMER LOCATION Location1 Location2	STANDARDS USED
CONDITION RECEIVED In Tolerance	INSTRUMENT SERIAL NUMBER TRACE NUMBER NEXT CAL
CONDITION RETURNED In Tolerance	FVS-275M 16787403.28 C0141-16400-690 05/31/2025
CALIBRATED BY Mike Stini	FVS-670 T1000409 C0341-26128-681 06/30/2025
REVIEWED/ISSUED D.P. 07/29/2025	FVS-670A CM229-49099-694 08/31/2025
CALIBRATION LOCATION FVM	
ENVIRONMENT 69.0°F, 31.0%RH, 29.01inHg	
CALIBRATION DATE 05/14/2025	
RECALIBRATION DUE 05/14/2026	

CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Volume Setting						
1000.000 µL	(µL)	(µL)	(µL)	(µL)	(µL)	(µL)
Test 1	100.0	N/A	N/A	99.8	99.8	
Test 2	100.0	N/A	N/A	99.7	99.7	
Test 3	100.0	N/A	N/A	99.9	99.9	
Test 4	100.0	N/A	N/A	100.5	100.5	
Mean Volume	100.00	97.00	103.00	99.98	99.98	2.7E-1
Imprecision (%)	0.00	0.00	0.60	0.36	0.36	6.8E-2
Inaccuracy (%)	0.00	-3.00	3.00	-0.02	-0.02	6.7E-2
Volume Setting						
100.000 µL	(µL)	(µL)	(µL)	(µL)	(µL)	(µL)
Test 1	1000.0	N/A	N/A	1002.4	100.3	
Test 2	1000.0	N/A	N/A	1004.9	100.3	
Test 3	1000.0	N/A	N/A	1001.3	100.3	
Test 4	1000.0	N/A	N/A	1005.4	100.3	
Mean Volume	1000.00	994.00	1006.00	1003.50	1003.50	1.9E+0
Imprecision (%)	0.00	0.00	0.20	0.20	0.20	6.7E-2
Inaccuracy (%)	0.00	-1.00	1.00	0.35	0.35	6.8E-2

COMMENTS

Z Factor: 1.0031

Example certificate, actual results and uncertainties will be reported at the time of calibration.
 Nominal and limits may vary based on actual make/model.

Fox Valley Metrology

3114 Medalist Drive

Oshkosh, WI 54902

(920) 426-5894 • Fax (920) 426-8120

<https://www.FoxValleyMetrology.com>

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- This certificate shall not be altered in any form or reproduced, except in full, without prior written approval from originating lab. These results relate only to the item(s) calibrated. Form Revision 10: 06/04/2024
 - Total expanded measurement uncertainties expressed are based on a confidence level of 95%; coverage factor of (k=2). The statement of compliance in this certificate was issued without taking the uncertainty of measurement into consideration. The customer shall assess the results and uncertainty when determining if the results meet their needs. (This is considered "shared responsibility.") Uncertainties expressed in nominal units.
 - The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). Calibration was completed in accordance with ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.
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