

Scope of Accreditation for Calibration

Accreditation No. : CALIBRATION 0156

Laboratory Status : Permanent Site Temporary Mobile

Field of Measurement	Parameter/Range/Item	Calibration and Measurement Capability*	Standard/Technique/Method/Equipment/Remark
3. Temperature (cont.)	Liquid in glass thermometer (cont.) Partial immersion -30 °C to 50 °C > 50 °C to 125 °C	0.17 °C 0.18 °C	In-house method : CM-004 by comparison with semi-SPRT in liquid bath
4. Volumetric	Volumetric flask 10 ml 25 ml 50 ml 100 ml 200 ml 250 ml 500 ml 1 000 ml Measuring pipet 0.1 ml to 1 ml 0.1 ml to 5 ml 0.1 ml to 10 ml 0.1 ml to 25 ml	6.0 µl 7.0 µl 10 µl 18 µl 34 µl 40 µl 66 µl 0.13 ml 3.0 µl 3.0 µl 4.0 µl 6.5 µl	In-house method : CM-052 based on ASTM E 542-01 In-house method : CM-055 based on ASTM E 542-01

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* expressed as an uncertainty (+) which for k = 2, providing a level of confidence of approximately 95%

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4. Volumetric (cont.)	Volumetric pipet		In-house method : CM-054 based on ASTM E 542-01
	1 ml	3.0 μ l	
	2 ml	3.0 μ l	
	5 ml	3.0 μ l	
	10 ml	4.5 μ l	
	15 ml	6.5 μ l	
	25 ml	7.0 μ l	
	Buret		In-house method : CM-053 based on ASTM E 542-01
	0.1 ml to 50 ml	11 μ l	
	Micropipette		In-house method : CM-058 based on ISO 8655-6 : 2002
	20 μ l to 50 μ l	0.13 μ l	
	> 50 μ l to 100 μ l	0.13 μ l	
	> 100 μ l to 200 μ l	0.13 μ l	
	> 200 μ l to 500 μ l	0.13 μ l	
	> 500 μ l to 1 000 μ l	0.14 μ l	
	> 1 000 μ l to 3 000 μ l	0.22 μ l	
	> 3 000 μ l to 5 000 μ l	0.32 μ l	
	> 5 000 μ l to 10 000 μ l	0.58 μ l	
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4. Volumetric (cont.)	Cylinder		In-house method : CM-056 based on ASTM E 542-01
	0.5 ml to 10 ml	4.0 μ l	
	> 10 ml to 50 ml	21 μ l	
	> 50 ml to 100 ml	23 μ l	
	> 100 ml to 500 ml	89 μ l	
5. Dimension	Vernier, dial, and digital caliper		In-house method : CM-001 based on JIS B 7507 : 1993
	0 mm to 300 mm	14 μ m	
	> 300 mm to 600 mm	16 μ m	
	> 600 mm to 1 000 mm	19 μ m	
	Can seam micrometer		In-house method : CM-002 based on JIS B 7502 : 1994
	0 mm to 13 mm	2.4 μ m	
	External dial and digital caliper gauge		In-house method : CM-018 based on JIS B 7503 : 1997
	0 mm to 10 mm	6.5 μ m	
	> 10 mm to 80 mm	13 μ m	
	Internal dial and digital caliper gauge		In-house method : CM-019 based on JIS B 7503 : 1997
	2.5 mm to 10 mm	6.5 μ m	
	> 10 mm to 30 mm	13 μ m	

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