



ACCREDITATION CERTIFICATE

LB-CAL-062

Emirates International Accreditation Centre

has accredited

**EMIRATES METROLOGY INSTITUTE OF ABU DHABI QUALITY AND
CONFORMITY COUNCIL**

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
to undertake the calibration in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period
printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 15-02-2024 to 14-08-2024

Initial Accreditation Date: 15-02-2018



Amina Ahmed Mohammed
CHIEF EXECUTIVE OFFICER



Accreditation Scope

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Date: 15-02-2024

Accreditation History			
Scope	Issue No.	Details	Date
Time and Frequency, Temperature, Mass, Volume, Density	7	Certificate validity was expanded for 6 months from 15-02-2024 up to 14-08-2024	15-02-2024
Electrical, Humidity	6		
Time and Frequency	6	Change the Laboratory's location, in addition to: Partially reduction and Modification in CMC values & Range and Specification values	12-12-2022
Temperature	6	Modification in CMC values & Range and Specification values	
Electrical	5	Modification in CMC Values & Range and Specification values	
Mass	6	Change the Laboratory's location	
Volume	6		
Density	6		
Humidity	5		
Dimension & Force	-	Voluntarily reduction of the full scope	
Time and Frequency	5	Renewal accreditation	
Mass	5		
Temperature	5		
Dimension	5		
Volume	5		
Density	5		
Humidity	4		
Electrical			
Force			

Accreditation Scope

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Date: 15-02-2024

Accreditation History			
Scope	Issue No.	Details	Date
Time and Frequency	4	Certificate validity (29/09/2019 to 14/02/2021) was expanded for 6 months, Transition to ISO/ IEC 17025:2017 and to comply with the new accreditation number format	15-02-2021
Mass	4		
Temperature	4		
Dimension	4		
Volume	4		
Density	4		
Humidity	3		
Electrical			
Force			
Time and Frequency	3		
Mass	3	Modification in CMC Values	
Temperature	3	Extension in scope and Modification in CMC Values	
Dimension	3	Modification in CMC Values	
Volume	3		
Density	3		
Time and Frequency	2	First issuance under the name of EIAC (which was formerly known as DAC)	29/09/2019
Mass and Balance			
Temperature			
Dimension			
Humidity			
Electrical			
Density			
Volume			
Force			

Accreditation Scope

Time and Frequency Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
General frequency source	CP-E-01	1 MHz to <10 MHz	2.6×10^{-11}	Laboratory
		10 MHz to 350 MHz	1.2×10^{-11}	
Frequency counter	CP-E-09	1 MHz	1.6×10^{-11}	Laboratory
		5 MHz		
		10 MHz		
		1 kHz to 1 MHz	1.7×10^{-10}	
		>1 MHz to 100 MHz	3.3×10^{-11}	
		>100 MHz to 350 MHz	4.6×10^{-11}	
Time Interval – Stopwatches and timers	CP-E-13	20 minutes to 100 hours	0.48 s	Laboratory
Time Interval – Local clock	CP-E-15	24 hours	0.76 s	Laboratory
Time scale difference - Local clock vs. UTC	CP-E-15	± 5 minutes	0.76 s	Laboratory



مركز الإمارات العالمي للاعتماد
Emirates International Accreditation Centre

Accreditation Scope

Time and Frequency Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Non-contact tachometer	Procedure CP-E-27 Calibration of Non Contact Tachometers	30.000 rpm to 99.999 rpm	0.0018 rpm	Laboratory
		100.00 rpm to 999.99 rpm	0.0060 rpm	
		1,000.0 rpm to 9,999.9 rpm	0.058 rpm	Laboratory
		10,000 rpm to 99,999 rpm	0.58 rpm	
		100,000 rpm to 199,800 rpm	5.8 rpm	

Accreditation Scope

Mass Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Mass/ Mass Standards	CP-M-02 “Calibration of Mass Standards” and CP-M-03 “Weighing Designs”	500 kg	4.9 g	Laboratory
		200 kg	1.9 g	
		100 kg	0.25 g	
		50 000 g	80 mg	
		20 000 g	10 mg	
		10 000 g	1.6 mg	
		5 000 g	0.80 mg	
		2 000 g	0.30 mg	
		1 000 g	0.16 mg	
		500 g	0.080 mg	
		200 g	0.030 mg	
		100 g	0.016 mg	
		50 g	0.010 mg	
		20 g	0.0080 mg	
		10 g	0.0060 mg	
		5 g	0.0050 mg	
2 g	0.0040 mg			
1 g	0.0030 mg			

Accreditation Scope

Mass Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Mass/ Mass Standards	CP-M-02 "Calibration of Mass Standards" and CP-M-03 "Weighing Designs"	0.5 g	0.0025 mg	Laboratory
		0.2 g	0.0020 mg	
		0.1 g	0.0016 mg	
		0.05 g	0.0012 mg	
		0.02 g	0.0010 mg	
		0.01 g	0.0010 mg	
		0.005 g	0.0010 mg	
		0.002 g	0.0010 mg	
		0.001 g	0.0010 mg	
Mass/ Electronic Balances	CP-M-01 "Calibration of NAWI's", Weights are available in OIML Classes: • E2: 1 mg to 5 kg; max grouped load 11.11 kg. • F1: 1 mg to 50 kg; max grouped load 171.1 kg	170 kg	740 mg	Customers Premises
		100 kg	660 mg	
		50 kg	140 mg	
		20 kg	46 mg	
		10 kg	25 mg	
		5 kg	3.8 mg	
		2 kg	1.5 mg	
		1 kg	0.76 mg	
		500 g	0.38 mg	

Accreditation Scope

Mass Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Mass/ Electronic Balances	CP-M-01 "Calibration of NAWI's", Weights are available in OIML Classes: • E2: 1 mg to 5 kg; max grouped load 11.11 kg. • F1: 1 mg to 50 kg; max grouped load 171.1 kg	200 g	0.15 mg	Customers Premises
		100 g	0.078 mg	
		50 g	0.046 mg	
		20 g	0.038 mg	
		10 g	0.031 mg	
		5 g	0.024 mg	
		2 g	0.018 mg	
		1 g	0.015 mg	
		500 mg	0.012 mg	
		200 mg	0.010 mg	

Accreditation Scope

Temperature Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Resistance thermometers with display unit	Comparison with platinum resistance thermometer in bath. EMI procedure: CP-T-01	-80 °C to 80 °C	0.015 °C	Laboratory
		>80 °C to 150 °C	0.020 °C	
		>150 °C to 250 °C	0.025 °C	
	Comparison with platinum resistance thermometers, utilizing the Zn fixed point. Applies for thermometers longer than 40 cm. EMI procedure: CP-T-01	>250°C to 419.527 °C (Zn fixed point)	0.025 °C	
	Comparison with platinum resistance thermometers, utilizing the Zn and Al fixed points. Applies for thermometers longer than 40 cm. EMI procedure: CP-T-01	>250 °C to 660.323 °C (Al fixed point)	0.025 °C	

Accreditation Scope

Temperature Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Resistance thermometers with display unit	Comparison with platinum resistance thermometer in a block calibrator. EMI procedure: CP-T-01	>250 °C to 660 °C	0.15 °C to 0.27 °C	Laboratory
Thermocouples with display unit	Comparison with platinum resistance thermometer in bath EMI procedure: CP-T-01	-80°C to 150°C	0.2°C	Laboratory
		>150°C to 250°C	0.4°C	
	Comparison with platinum resistance thermometer in a block calibrator EMI procedure: CP-T-01	>250 °C to 660 °C	0.4 °C to 0.8 °C	
Temperature Block Calibrators	Comparison with platinum resistance thermometer. EMI procedure: CP-T-03	-30 °C to 660 °C	0.2 °C	Laboratory
Platinum Resistance thermometers	Comparison with platinum resistance thermometers in bath. EMI procedure: CP-T-04	-80°C to 80°C	0.01°C	Laboratory
		>80°C to 150°C	0.015°C	
		>150°C to 250°C	0.02°C	

Accreditation Scope

Temperature Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Platinum Resistance thermometers	Comparison with platinum resistance thermometers in a block calibrator. EMI procedure: CP-T-04	>250 °C to 660 °C	0.15 °C to 0.27 °C	Laboratory
	Comparison with platinum resistance thermometers in Zn fixed point. EMI procedure: CP-T-04	419.527°C (Zn fixed point)	0.005°C	
	Comparison with platinum resistance thermometers, utilizing the Zn fixed point. Applies for thermometers longer than 40 cm. EMI procedure: CP-T-04	>250°C to 419.527 °C (Zn fixed point)	0.020 °C	
	Comparison with platinum resistance thermometers in Al fixed point. EMI procedure: CP-T-04	660.323 °C (Al fixed point)	0.020 °C	

Accreditation Scope

Temperature Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Platinum Resistance thermometers	Comparison with platinum resistance thermometers, utilizing the Zn and Al fixed points. Applies for thermometers longer than 40 cm. EMI procedure: CP-T-04	>250 °C to 660.323 °C (Al fixed point)	0.020 °C	Laboratory
Air Temperature Sensors	Comparison with reference thermometer in an air chamber. EMI procedure: CP-T-01	10 °C to 70 °C	0.10°C to 0.30°C	Laboratory
SPRT Calibration at Fixed points	Triple point of mercury. EMI procedure: CP-T-10	234.3156 K	0.6 mK	Laboratory
	Triple point of water. EMI procedure: CP-T-10	0.01 °C	0.3 mK	
	Ga melting point. EMI procedure: CP-T-10	29.7646 °C	0.6 mK	
	In freezing point. EMI procedure: CP-T-10	156.5985 °C	1.7 mK	
	Sn freezing point. EMI procedure: CP-T-10	231.928 °C	1.6 mK	

Accreditation Scope

Temperature Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
SPRT Calibration at Fixed points	Zn freezing point. EMI procedure: CP-T-10	419.527 °C	1.9 mK	Laboratory
	Al freezing point. EMI procedure: CP-T-10	660.323 °C	16 mK	
SPRT Calibration at Fixed Point Sub-Ranges	Fixed points Hg to H2O EMI procedure: CP-T-10	234.3156 K to 273.16 K	0.7 mK	Laboratory
	Fixed points H2O to Ga EMI procedure: CP-T-10	0.01 °C to 29.746 °C	0.7 mK	
	Fixed points Ga to In EMI procedure: CP-T-10	29.7646 °C to 156.5985 °C	1.8 mK	
	Fixed points In to Sn EMI procedure: CP-T-10	156.5985 °C to 231.928 °C	2.0 mK	
	Fixed points Sn to Zn EMI procedure: CP-T-10	231.928 °C to 419.527 °C	3.0 mK	
	Fixed points Zn to Al EMI procedure: CP-T-10	419.527 °C to 660.323 °C	3 mK to 16 mK	
Calibration of Climatic Chambers	DKD-R 5-7. EMI procedure: CP-T-05	-40 °C to 140 °C	0.2 °C	Customer's Premises
Calibration of Autoclaves	EMI procedure: CP-T-06	110 °C to 140 °C	0.2 °C	Customer's Premises

Accreditation Scope

Temperature Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Base metal thermocouples	Comparison calibration in baths and furnaces. EMI procedure: CP-T-07	-70 °C to 250 °C	0.2 °C to 0.4 °C	Laboratory
		>250 °C to 1100 °C	0.6 °C to 1.3 °C	
Noble metal thermocouples	Comparison calibration in baths and furnaces. EMI procedure: CP-T-07	-50 °C to 250 °C	0.2 °C to 0.4°C	Laboratory
		>250 °C to 1100 °C	0.6 °C to 1.0 °C	

Accreditation Scope

Humidity Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 06

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Calibration of dew point meters for relative humidity	Calibration in chamber of humidity generator. EMI procedure: CP-T-02	10%rh to 95 %rh at air temperature from 10°C to 45°C	0.3%rh to 1.0 %rh	Laboratory
		10%rh to 95%rh at air temperature from 45°C to 70°C	0.4%rh to 1.6 %rh	
Calibration of relative humidity meters for relative humidity	Calibration in chamber of humidity generator EMI procedure: CP-T-02	10%rh to 95%rh at air temperature from 10°C to 45°C	0.4%rh to 1.1 %rh	Laboratory
		10%rh to 95%rh at air temperature from 45°C to 70°C	0.5%rh to 1.7 %rh	
Calibration of Climatic Chambers, Humidity Measurements	According to DKD-R 5-7 EMI procedure: CP-T-05	10 %rh to 90 %rh at air temperature from 10°C to 50°C	0.6 %rh to 2.0 %rh	Customer's Premises

Accreditation Scope

Electrical Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 06

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Solid state DC voltage standards	Procedure CP-E-03	10 V	7.3 μV	Laboratory
		1.018V	2.6 μV	
DC resistance standards	Procedure CP-E-02 <i>R = measured resistance value</i>	100 m Ω	0.43 $\times 10^{-6}$ R	
		1 Ω	0.43 $\times 10^{-6}$ R	
		10 Ω	0.43 $\times 10^{-6}$ R	
		25 Ω	0.49 $\times 10^{-6}$ R	
		100 Ω	0.49 $\times 10^{-6}$ R	
		1 k Ω	0.54 $\times 10^{-6}$ R	
		10 k Ω	0.57 $\times 10^{-6}$ R	
DC resistance Calibration of Resistor Decades	Procedure CP-E-23 <i>R = measured resistance value</i>	0.1 Ω /step	0.05 m Ω	
		1 Ω /step	50 $\times 10^{-6}$ R	
		10 Ω /step	10 $\times 10^{-6}$ R	
		100 Ω /step	7.0 $\times 10^{-6}$ R	
		1 k Ω /step	7.0 $\times 10^{-6}$ R	

Accreditation Scope

Electrical Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 06

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
DC resistance Calibration of Instruments	Procedure CP-E-14 Procedure CP-E-16	0 Ω	3.0 μΩ	Laboratory
		1 Ω	3.8 μΩ	
		10 Ω	9.1 μΩ	
		25 Ω	32 μΩ	
		100 Ω	0.10 mΩ	
		200 Ω	0.26 mΩ	
		400 Ω	0.52 mΩ	
DC resistance ratio	Procedure CP-E-12 Bridge Procedure CP-E-12 Range Extender	0.1:1 to 10:1	0.08X10 ⁻⁶	Laboratory
		10:01	2.9X10 ⁻⁶	
		100:01	5.8X10 ⁻⁶	
		1000:01	10X10 ⁻⁶	
DC current Calibration of Sources	Procedure CP-E-22 <i>I = measured current value</i>	10 μA to 0.3 mA	3.0 nA	Laboratory
		>0.3 mA to 100 mA	10X10 ⁻⁶ /	
		>100 mA to 1 A	15X10 ⁻⁶ /	

Accreditation Scope

Electrical Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 06

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
DC current Calibration of Sources	Procedure CP-E-22 <i>I = measured current value</i>	>1 A to 10 A	$17 \times 10^{-6} /$	Laboratory
		>10 A to 150 A	$20 \times 10^{-6} /$	
AC power Calibration of power meters	Procedure CP-E-30	1 V to 500 V	Active power	
		0.125 A to 120 A	$25 \mu\text{W} / \text{VA}$	
		45 Hz to 65 Hz	Reactive power	
		Power factor 0 to 1	$40 \mu\text{var} / \text{VA}$	
AC energy Calibration of energy meters	Procedure CP-E-31	30 V to 490 V	Active energy 260 $\mu\text{Wh} / \text{VAh}$	
		4 mA to 120 A		
		45 Hz to 65 Hz	Reactive energy 270 $\mu\text{varh} / \text{VAh}$	
		Power factor 0 to 1		

Accreditation Scope

Density Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Solid Density Standard at 20°C Mass: 1 kg	CP-V-05 “Solid density by Hydrostatic weighing” Hydrostatic weighing (comparison to reference silicon sphere SP-1)	2330 kg/m ³	1.5 kg/m ³	laboratory
Density of solid at 20°C Mass: 20g to 30g	CP-V-05 “Solid density by Hydrostatic weighing” Hydrostatic weighing with use of volume comparator	2300 kg/m ³ to 2800 kg/m ³	1 kg/ m ³	
Density of solid at 20°C Mass: 1g to 1kg Density: 7900 kg/m ³ to 8400 kg/m ³	CP-V-05 “Solid density by Hydrostatic weighing” Hydrostatic weighing with use of volume comparator	1g	60 kg/m ³	Laboratory
		2 g	30 kg/m ³	
		5 g	15 kg/m ³	
		10 g	8 kg/m ³	
		20 g	5 kg/m ³	
		50 g	3 kg/m ³	

Accreditation Scope

Density Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Density of solid at 20°C Mass: 1g to 1kg Density: 7900 kg/m ³ to 8400 kg/m ³	CP-V-05 "Solid density by Hydrostatic weighing" Hydrostatic weighing with use of volume comparator	100 g	2.5 kg/m ³	Laboratory
		200 g	2 kg/m ³	
		500 g	2 kg/m ³	
		1 kg	1.5 kg/m ³	
Density of Liquid at 20°C	CP-V-04 Hydrostatic weighing with use of glass sinker of appr. . ca. 25g mass	680 kg/m ³ to 1200 kg/m ³	0.86 kg/m ³ to 1.3 kg/m ³	Laboratory

Accreditation Scope

Volume Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers)	CP-V-01 "Gravimetric Calibration of piston operated pipettes" Fixed and variable volume single and multi-channel Manual or automatic piston operated pipettes using gravimetric method: - 1 volume (fixed volume pipettes) - 3 volumes (variable volume pipettes) -10 readings As specified in ISO 8655- 6:2002	10 µl	0.024 µl	Laboratory
		20 µl	0.028 µl	
		50 µl	0.046 µl	
		100 µl	0.083 µl	
		200 µl	0.17 µl	
		500 µl	0.41 µl	
		1000 µl	2.1 µl	
		2000 µl	5 µl	
		5000 µl	8 µl	
Volume of Liquids Piston operated volumetric apparatus	CP-V-01 "Gravimetric Calibration of piston operated pipettes" Fixed and variable volume single and multi-channel Manual or automatic	1 ml	0.0021 ml	Laboratory
		2 ml	0.0050 ml	
		5 ml	0.0080 ml	
		10 ml	0.017 ml	

Accreditation Scope

Volume Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Volumetric glassware One-mark flasks	CP-V-02 "Gravimetric Calibration of Volumetric Glassware"	10 ml	0.023 ml	Laboratory
		20 ml	0.033 ml	
		50 ml	0.047 ml	
		100 ml	0.064 ml	
		200 ml	0.087 ml	
		500 ml	0.13 ml	
		1000 ml	0.19 ml	
Volumetric glassware Graduated measuring cylinders	CP-V-02 "Gravimetric Calibration of Volumetric Glassware"	10 ml	0.070 ml	Laboratory
		20 ml	0.12 ml	
		50 ml	0.21 ml	
		100 ml	0.38 ml	
		200 ml	0.60 ml	
		500 ml	0.84 ml	
		1000 ml	1.5 ml	
		2000 ml	2.5 ml	

Accreditation Scope

Volume Calibration

LB-CAL-062

Emirates Metrology Institute of Abu Dhabi Quality and Conformity Council

Krypto Labs Building | Masdar City

Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 15-02-2024

Valid to: 14-08-2024

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)	Location
Volumetric glassware Pipettes	CP-V-02 "Gravimetric Calibration of Volumetric Glassware"	1 ml	0.0060 ml	Laboratory
		2 ml	0.0060 ml	
		5 ml	0.012 ml	
		10 ml	0.018 ml	
		25 ml	0.040 ml	
Volumetric glassware Burettes	CP-V-02 "Gravimetric Calibration of Volumetric Glassware"	10 ml	0.020 ml	Laboratory
		25 ml	0.020 ml	
		50 ml	0.040 ml	
		100 ml	0.070 ml	
Metallic prover vessels	CP-V-03 "Gravimetric Calibration of Prover Vessels"	5 L to 100 L	0.10%	Laboratory