

Identification Number of Accreditation
 NACI/Lab/1180
 Initial Accreditation Date and Place: 2023.01.08 - Tehran
 Renewal Date: ---
 Amendment Date: ---
 Expiry Date : 2026.01.07

Laboratory Accreditation Certificate

Annex Accreditation Scope of Fartashdad Laboratory

1- Volume

No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	Piston-operated Volumetric Apparatus	Piston pipette	(1 to 10) μ l	0.03 μ l
			(10 to 10000) μ l	(3E-06V + 0.03) μ l V:ml
		Dispenser	(0.01 to 200) ml	(0.0005V + 0.12) μ l V:ml
		Piston burette	(1 to 100) ml	(0.022V + 0.2) μ l V:ml
		Dilutor	(0.05 to 100) ml	(0.022V + 0.2) μ l V:ml
2	Volumetric Glass and Plasticware	Burette&Micro burette	(1 to 100) ml	(0.0001V + 0.002) ml V:ml
		Graduated Cylinder	(5 to 4000) ml	(0.0001V + 0.029) ml V:ml
		Graduated Pipette	(0.5 to 100) ml	(0.0003V + 0.0018) ml V:ml
		Volumetric Pipette	(0.5 to 100) ml	(0.0003V + 0.0018) ml V:ml
		Volumetric Flask	(5 to 5000) ml	(0.083V + 2.58) μ l V:ml
		pycnometer	(1 to 100) ml	(0.0001V + 0.0029) ml V:ml
3	Standard Capacity Measure		5L	0.0004 L

Dr.S.M.Hashemi
 NACI PRESIDENT



جمهوری اسلامی ایران
Islamic Republic of Iran



National Accreditation Center of Iran
مرکز ملی تایید صلاحیت ایران

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2- Temperature

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Oven, Incubators, Bain-Marie	(-25 to 100) °C	0.19 °C
		(100 to 250) °C	0.2 °C
2	Liquid in glass Thermometer	(-25 to 100) °C	0.09 °C
		(100 to 250) °C	0.27 °C
3	Resistance Thermometer	(-25 to 100) °C	0.09 °C
		(100 to 250) °C	0.27 °C
4	Thermocouple Thermometer	(-25 to 100) °C	0.17 °C
		(100 to 250) °C	0.3 °C
5	Freezer and Refrigerator	-25 to 10 °C	0.19 °C

3- Pressure

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Vacuum measuring device and Bourdon Pressure meter	(-0.85 to 7) bar	0.031% FS

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4- Chemical

No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	pH meter	Electrode	Up to 14pH	0.02 pH
		Voltage Indicator	(-500 to 500) mV	0.004mV
		Temperature Sensor	(0 to 50) °C	0.09 °C
2	EC meter	Electrode	(84 to 1413) $\frac{\mu S}{cm}$	0.0032rdg + 0.7 $\frac{\mu S}{cm}$
			(1413 to 12880) $\frac{\mu S}{cm}$	0.004rdg
		Temperature Sensor	(0 to 50) °C	0.09 °C
		Resistance	Up to 3200 Ω	1E-05rdg + 0.005 Ω
3	Salinity meter		Up to 1000 mg/L	1.3 mg/L
4	TDS meter		Up to 1000 ppm	2.3 ppm

5- Rotation

No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	Non-contact RPM Measurement		(30 to 1000) rpm	(0.12% rdg + 0.24) rpm
			(30 to 24000) rpm	(0.12% rdg + 2.4) rpm
2	Non-contact Tachometer		(30 to 24000) rpm	0.06% rdg

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