Accreditation Scope

ACE LABORATORIES - SOLE PROPRIETORSHIP L.L.C., NAL 214
Testing Laboratory, (ISO/IEC 17025:2017)

Ace Laboratories – Sole Proprietorship LLC. PO Box: 91444, Mussafah M 44, Store 3.Plot 09 Abu Dhabi, UAE Tel : +971 2 878 1750 Email: info@acelab.me TRN: 104122430200003, Abu Dhabi, United Arab Emirates

Issue Date: 21/06/2024 **Expiry Date: 20/06/2027**
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Testing Field	Materials/ Products Tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Biological	Water	Heterotrophic Plate Count	APHA 9215 B 24th Edition, 2023	P
Biological	Water	Total Coliform	APHA 9222B 24th Edition, 2023	P
Biological	Water	Faecal Coliform	APHA 9222D 24th Edition, 2023	P
Biological	Water	Escherichia coli	APHA 9222 H &I 24th Edition, 2023	P
Biological	Water	Pseudomonas aeruginosa	BS EN /ISO 16266 /2006	P
Biological	Water	Enterococci	ISO 7899-2:2000	P
Biological	Water	Legionella spp (Enumeration)	ISO 11731:2017 E Matrix A (Procedure 5 & 7) & Matrix B (Procedure 8,9,10)	P
Biological	Water	Water Sampling - Micro	ACE-MB-SOP-11 Issue 01 dated 02/11/2023 Rev 0	S

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Biological	Water	Water Sampling - Legionella	ACE-MB-SOP-12 Issue 01 dated 02/11/2023 Rev 0	S
Biological	Food	Enumeration of Total plate count (Aerobic Colony Count)	CMMEF Chapter 8-8.72 / 5th Edition, 2015	P
Biological	Food	Yeast & Mold	CMMEF Chapter 21-21.51 & 21.52 / 5th Edition, 2015	P
Biological	Food	Enterobacteriaceae	ISO 21528:2017	P
Biological	Food	Coliform	ISO 4832:2006	P
Biological	Food	E. Coli	ISO 16649:2:2001	P
Biological	Food	Staphylococcus aureus	ISO 6888-1/2021	P
Biological	Food	Salmonella species	ISO 6579-1:2017	P
Biological	Food	Listeria monocytogenes	ISO 11290-2:2017	P
Biological	Food	Vibrio parahaemolyticus	ISO 21872-1:2017	P
Biological	Food	Bacillus cereus	CMMEF Chapter 31.6 (5th Edition)	P
Biological	Food	E.coli 0157	AOAC 2000.14	P

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Biological	Swab (Hand & Surface)	Total plate count	CMMEF Chapter 8-8.72 / 5th Edition, 2015	P
Biological	Swab (Hand & Surface)	Yeast & Mold	CMMEF Chapter 21-21.51 & 21.52 / 5th Edition, 2015	P
Biological	Swab (Hand & Surface)	Coliform	ISO 4832:2006	P
Biological	Swab (Hand & Surface)	Enterobacteriaceae	ISO 21528:2017	P
Biological	Swab (Hand & Surface)	E. coli	ISO 16649:2:2001	P
Biological	Swab (Hand & Surface)	Staphylococcus aureus	ISO 6888-1/2021	P
Biological	Swab (Hand & Surface)	Swab Sampling	ACE-SOP-MB-34 Issue 01 dated 02/11/2023 Rev 0	S
Biological	Air	Total plate count	CMMEF Chapter 3 / 5th Edition & ACE-MB-SOP-35 Issue 01 dated 02/11/2023 Rev 0	P
Biological	Air	Yeast & Mold	CMMEF Chapter 3 / 5th Edition & ACE-MB-SOP-36 Issue 01 dated 02/11/2023 Rev 0	P

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Biological	Air	Air Sampling	ACE-MB-SOP-37 Issue 01 dated 02/11/2023 Rev 0	S
Chemical	Water	Total intensity of Odor (TIO Rating- 0 to 8)	ACE-CH-SOP-01 Issue 01 dated 28/11/2023 Rev 1 dated 05/03/2024 based on APHA 2150 C, 24th Edition, 2023	P
Chemical	Water, Waste water, Swimming pool water, Chiller water, Sea water	pH @ 25˚C (1 to 14)	APHA 4500-H+B, 24th Edition, 2023	P
Chemical	Water, Waste water, Swimming pool water, Chiller water, Sea water	Conductivity @ 25˚C (0.05µS/cm onwards)	APHA 2510 B, 24th Edition, 2023	P
Chemical	Water/Waste water	Total Suspended solids dried at 103-105oC (3mg/L onwards)	APHA 2540 D, 24th Edition, 2023	P
Chemical	Water/Waste water	Total Dissolved solids dried at 180oC (3mg/L onwards)	APHA 2540 C, 24th Edition, 2023	P

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Chemical	Water/Waste water	Turbidity (0.02 NTU onwards)	APHA 2130 B, 24th Edition, 2023	P
Chemical	Water/Waste water	Apparent colour (5 Pt-Co unit onwards)	HACH Method 8025 10/2014 Edition 10	P
Chemical	Water, Waste water, Swimming pool water	Total Alkalinity as CaCO3 (2 mg/L onwards)	APHA 2320 B, 24th Edition, 2023	P
Chemical	Water, Waste water	Carbonate Alkalinity as CaCO3 (2 mg/L onwards)	APHA 2320 B, 24th Edition, 2023	P
Chemical	Water, Waste water	Bicarbonate Alkalinity as CaCO3 (2 mg/L onwards)	APHA 2320 B, 24th Edition, 2023	P
Chemical	Water, Waste water	Chloride (1 mg/L onwards)	APHA 4500 Cl- B, 24th Edition, 2023	P
Chemical	Water, Waste water, Chiller water	Hardness (EDTA) as CaCO3 (2 mg/L onwards)	APHA 2340 C, 24th Edition, 2023	P
Chemical	Water, Waste water, Swimming pool water	Calcium Hardness as CaCO3 (2 mg/L onwards)	APHA 3500 Ca B, 24th Edition, 2023	P

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Chemical	Water, Waste water	Magnesium Hardness as CaCO3 (2 mg/L onwards)	ACE-CH-SOP-14 Issue 01 dated 28/11/2023 Rev 0 based on APHA 2340 C & 3500 Ca B, 24th Edition, 2023	P
Chemical	Water, Waste water	Calcium (2 mg/L onwards)	APHA 3500 Ca B, 24th Edition, 2023	P
Chemical	Water, Waste water	Magnesium (2 mg/L onwards)	APHA 3500 Mg B, 24th Edition, 2023	P
Chemical	Water, Waste water	Nitrate-Nitrogen (0.3 mg/L onwards)	HACH Methods 8039 01/2019 Edition 10	P
Chemical	Water, Waste water	Nitrate-Nitrogen (0.01 mg/L onwards)	HACH Method 8192 01/2019 Edition 11 (Cadmium reduction method)	P
Chemical	Water Waste water, Chiller water	Nitrite (2 mg/L onwards)	HACH Method 8153 01/2014 Edition 09	P
Chemical	Water, Waste water, Chiller water	Nitrite (0.002 mg/L onwards)	HACH Method 8507 08/2019 Edition 11	P
Chemical	Water, Waste water	Sulphate (2 mg/L onwards)	HACH Method 8051 10/2019 Edition 11	P

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Chemical	Water, Swimming pool water	Free chlorine (0.02 mg/L onwards)	Hach Method 8021 01/2014 Edition 9	P
Chemical	Water, Swimming pool water	Total Chlorine (0.02 mg/L onwards)	Hach Method 8167 01/2022 Edition 11	P
Chemical	Water, Waste water	Fluoride (0.02 mg/L onwards)	HACH Method 8029 08/2018 Edition 10 (Spadns Method)	P
Chemical	Water, Waste water	Reactive Phosphorous (Orthophosphate), PO4 3- (0.02 mg/L onwards)	HACH Method 8048 01/2017 Edition 10 (Ascorbic acid method)	P
Chemical	Water, Waste water	Reactive Phosphorous (Orthophosphate), PO4 3- (0.3 mg/L onwards)	HACH Method 8114 08/2019 Edition 10 (Molybdovanadate method)	P
Chemical	Water, Waste water	Ammonia-Nitrogen (0.01 mg/L onwards)	HACH Method 8155 09/2015 Edition 10 (Salicylate method)	P
Chemical	Water, Waste water	Ammonia-Nitrogen (0.02 mg/L onwards)	HACH Method 8038 04/2017 Edition 09	P

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Chemical	Boiler Water, Ultrapure water	Silica (0.01 mg/L onwards)	HACH Methods 8186 09/2019 Edition 10 (Heteropoly blue method)	P
Chemical	Water	Silica (1 mg/L onwards)	HACH Method 8185 10/2023 Edition 10 (Silicomolybdate method)	P
Chemical	Water, Waste water	Aluminium (0.08 mg/L onwards)	HACH Method 8012 01/2018 Edition 11 (Aluminon method)	P
Chemical	Water, Waste water	Boron (0.2 mg/L onwards)	HACH Method 8015 03/2014 Edition 8 (Carmine method)	P
Chemical	Water, Waste water	Chromium, Hexavalent (0.01 mg/L onwards)	HACH Method 8023 08/2019 Edition 10	P
Chemical	Water, Waste water	Copper (0.04 mg/L onwards)	HACH Method 8506 06/2017 Edition 11 (Bicinchoninate method)	P
Chemical	Water, Waste water	Ferrous Iron (Fe2+) (0.02 mg/L onwards)	HACH Method 8146 08/2019 Edition 11 (1,10 Phenanthrolene method)	P

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Chemical	Water, Waste water	Manganese (0.006 mg/L onwards)	HACH Method 8149 12/2017 Edition 10	P
Chemical	Water, Waste water	Manganese(Soluble) (0.1 mg/L onwards)	HACH Method 8034 01/2014 Edition 09	P
Chemical	Waste water	Chemical oxygen demand -COD (1 mg/L onwards)	ACE-CH-SOP-37 Issue 01 dated 28/11/2023 Rev 0 based on HACH Method 8000, 05/2021, Edition 12	P
Chemical	Waste water	Biochemical oxygen demand-5day BOD test (5 mg/L onwards)	APHA 5210 B, 24th Edition, 2023	P
Chemical	Waste water	Oil & Grease (3 mg/L onwards)	APHA 5520 B, 24th Edition, 2023	P
Chemical	Water, Waste water	Sampling	ACE-CH-SOP-39 Issue 01 dated 28/11/2023 Rev 1 dated 05/03/2024 based on APHA 1060 24th Edition, 2023	S

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Environment	Indoor air quality	Particulate Matter-1 (PM- 1)	ACE-EN-SOP-01 Issue 01 dated 27/1ACE-EN-SOP-01 Issue 01 dated 27/11/2023 Rev 0 using Light scattering technique by Metone Aerocet 831	S
Environment	Indoor air quality	Particulate Matter-2.5 (PM-2.5)	ACE-EN-SOP-01 Issue 01 dated 27/1ACE-EN-SOP-01 Issue 01 dated 27/11/2023 Rev 0 using Light scattering technique by Metone Aerocet 831	S
Environment	Indoor air quality	Particulate Matter-4 (PM- 4)	ACE-EN-SOP-01 Issue 01 dated 27/1ACE-EN-SOP-01 Issue 01 dated 27/11/2023 Rev 0 using Light scattering technique by Metone Aerocet 831	S

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Environment	Indoor air quality	Particulate Matter-10 (PM- 10)	ACE-EN-SOP-01 Issue 01 dated 27/1ACE-EN-SOP-01 Issue 01 dated 27/11/2023 Rev 0 using Light scattering technique by Metone Aerocet 831	S
Environment	Indoor air quality	Total Suspended Particulates (TSP)	ACE-EN-SOP-01 Issue 01 dated 27/1ACE-EN-SOP-01 Issue 01 dated 27/11/2023 Rev 0 using Light scattering technique by Metone Aerocet 831	S
Environment	Indoor air quality	Sulphur Dioxide (SO2) (0 to 10 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S

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Environment	Indoor air quality	Nitrogen Dioxide (NO2) (0 to 5 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Oxygen(O2) (0 to 20.9%)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Ozone(O3) (0 to 1 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S

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Environment	Indoor air quality	Ammonia (NH3) (0 to 50 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Carbon monoxide (CO) (0 to 50 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Formaldehyde (0 to 1 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S

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Environment	Indoor air quality	Hydrogen Sulphide (H2S) (0 to 25 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Carbon dioxide (CO2) (0 to 5000 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Infrared sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Methane (0 to 10%)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using Catalytic combustible gas sensor by Yesplus LGA Multigas monitor	S
Environment	Indoor air quality	Volatile Organic Compound (0 to 100 ppm)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0 using PID sensor by Yesplus LGA Multigas monitor	S

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Environment	Indoor air quality	Temperature (0 to 55˚C)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0	S
Environment	Indoor air quality	Relative Humidity (0 to 95%)	ACE-EN-SOP-02 Issue 01 dated 27/11/2023 Rev 0	S
Environment	Indoor air quality	Noise Level	ACE-EN-SOP-03 Issue 01 dated 27/11/2023 Rev 1 dated 05/03/2024 based on ISO 1996-2:2017	S
Environment	Indoor air quality	Illuminance (0 to 20000 lux)	ACE-EN-SOP-04 Issue 01 dated 27/11/2023 Rev 0 based on BS 667:2005(Confirmed: 2011)	S
Environment	Ambient Air Quality	Particulate matter -2.5 (PM-2.5)	ACE-EN-SOP-06 Issue 01 dated 27/11/2023 Rev 0 using light scattering technique by Sonia Scientific Air Quality Monitor G-01(AQM G-01)	S

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Environment	Ambient Air Quality	Particulate matter -10 (PM-10)	ACE-EN-SOP-06 Issue 01 dated 27/11/2023 Rev 0 using light scattering technique by Sonia Scientific Air Quality Monitor G-01(AQM G-01)	S
Environment	Ambient Air Quality	Total suspended particulate matter (TSPM)	ACE-EN-SOP-06 Issue 01 dated 27/11/2023 Rev 0 using light scattering technique by Sonia Scientific Air Quality Monitor G-01(AQM G-01)	S
Environment	Ambient Air Quality	Sulphur Dioxide (SO2) (0 to 500 ppb)	ACE-EN-SOP-05 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Air Quality Monitor-AQM-G01	S

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Testing Laboratory, (ISO/IEC 17025:2017)

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Issue Date: 21/06/2024 **Expiry Date: 20/06/2027**
Issue No: 1

Environment	Ambient Air Quality	Nitrogen Dioxide (NO2) (0 to 500 ppb)	ACE-EN-SOP-05 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Air Quality Monitor-AQM-G01	S
Environment	Ambient Air Quality	Ozone(O3) (0 to 500 ppb)	ACE-EN-SOP-05 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Air Quality Monitor-AQM-G01	S
Environment	Ambient Air Quality	Ammonia (NH3) (0 to 10 ppm)	ACE-EN-SOP-05 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Air Quality Monitor-AQM-G01	S

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Accreditation Scope

ACE LABORATORIES - SOLE PROPRIETORSHIP L.L.C., NAL 214
Testing Laboratory, (ISO/IEC 17025:2017)

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Environment	Ambient Air Quality	Hydrogen Sulphide (H2S) (0 to 10 ppm)	ACE-EN-SOP-05 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Air Quality Monitor-AQM-G01	S
Environment	Ambient Air Quality	Carbon monoxide (CO) (0 to 50 ppm)	ACE-EN-SOP-05 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Air Quality Monitor-AQM-G01	S
Environment	Ambient Air Quality	Total volatile Organic Compounds (0 to 10 ppm)	ACE-EN-SOP-07 Issue 01 dated 27/11/2023 Rev 0 using Electrochemical sensor by Sonia Scientific Potable gas detector-SSES 102	S

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Environment	Meteorology	Wind speed (0 to 20 m/s)	ACE-EN-SOP-08 Issue 01 dated 27/11/2023 Rev 0 using Sonia Scientific Air Quality monitor AQM G-01 associated Anemometer	S
Environment	Meteorology	Wind direction	ACE-EN-SOP-08 Issue 01 dated 27/11/2023 Rev 0 using Sonia Scientific Air Quality monitor AQM G-01 associated windvane	S
Environment	Ambient Air Quality	Temperature (0 to 55˚ C)	ACE-EN-SOP-08 Issue 01 dated 27/11/2023 Rev 0	S
Environment	Ambient Air Quality	Relative Humidity (0 to 90%)	ACE-EN-SOP-08 Issue 01 dated 27/11/2023 Rev 0	S
Environment	Ambient Air Quality	Noise Level	ACE-EN-SOP-03 Issue 01 dated 27/11/2023 Rev 1 dated 05/03/2024 based on ISO 1996-2:2017	S
END				

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