



ACCREDITATION CERTIFICATE

LB-TEST-215

Emirates International Accreditation Centre

has accredited

W A F A BIOLOGICAL LABORATORY LLC

Unit 103, Palace towers T1, Dubai Silicone Oasis

Dubai-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 tests 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: 21/11/2022 to 20/11/2025

Initial Accreditation Date: 21/11/2019




Amina Ahmed Mohammed

CHIEF EXECUTIVE OFFICER
APPROVAL



مركز الإمارات العالمي للاعتماد
Emirates International Accreditation Centre

Accreditation Scope

Food Testing

LB-TEST-215

Wafa Biological Laboratory

Unit 103, Palace towers T1, Dubai Silicone Oasis

Dubai- United Arab Emirates

Issue no.: 04

Date: 21-11-2022

Valid to: 20-11-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food/ Swab	Collection and preparation of Food samples and swabs	LP25-01.FSS
		Enumeration of presumptive <i>B.Cereus</i> : Colony count Technique	ISO7932 AMD 1: 2020
		Enumeration of <i>Clostridium perfringens</i> : Colony count Technique	ISO 7937
		Enumeration of <i>Coliforms</i> : Colony count technique	ISO 4832



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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food/ Swab	Enumeration of <i>E.coli</i> : colony count technique using chromogenic medium	ISO 16649-2
		Enumeration of <i>Enterobacteriaceae</i> : Colony count technique	ISO 21528-2
		Detection of <i>Listeria monocytogenes</i> and other <i>Listeria</i> species	ISO 11290-1
		Detection of <i>Salmonella</i> species	ISO 6579-1 AMD 1:2020

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food/ Swab	Enumeration of Coagulate positive Staphylococci (Staphylococcus aureus and other species)	ISO 6888-1
		Aerobic Colony Count at 30°C by Spread Plate Technique	ISO 4833-2
		Enumeration of Yeast & Moulds	ISO 21527-2
	Sea Food and Sea Food Products and Environmental Swab	Detection of <i>Vibrio parahaemolyticus</i>	ISO 21872-1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Raw meat, processed meat, leafy vegetables and Environmental Swabs	Detection of Ecoli O157:h7	Reveal Test Kit (AOAC Approved Method Int. 2000.14) 20 hour protocol
	Water	Heterotrophic Plate Count/Colony count (22 °C & 37 °C)	TP02-01.HPC
		Enumeration of Clostridium perfringens (including spores)	TP01-01.WCP
Microbiology/ Chemistry	Water	Water sampling procedure	LP22-01.WSP
Chemistry	Food	Total Fat	AOAC 991.36
		Free Fatty Acid	ISO 660



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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Food	Total Protein	ISO 937
		Moisture	AOAC 950.46
		Salt	AOAC 937.09

Accreditation History		
Issue no.	Details	Date
04	Renewal of the accreditation	21-11-2022
03	Extension (add Microbiology tests) and Voluntary reduction in scope (remove all tests related CCFRA methods)	16-12-2021
02	Extension in scope (add Chemistry tests, Microbiology-Water and Microbiology/ Chemistry-Water)	19-01-2021
01	Granted accreditation from EIAC (which was formerly known as DAC)	21-11-2019

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water	Enumeration of Legionella Matrix A: Water with low background Matrix B: Water with high background Matrix C: Water with extremely high background.	ISO 11731 Matrix A: Procedures 1 to 4, 5 &7 Matrix B: Procedures 8,9,10 Matrix C Procedures 14
		Sampling for Legionella bacteria in water systems- Code of practice	BS 7592 Section 2
	Air/Environment	Sampling of Air/Environment	LP26-01.MSAE

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Ice, Dental Clinic, Domestic & Potable water, Recreational (swimming pool) & Fountain water, non potable, Bottled water, Sea water, sludge & Waste Water	Heterotrophic Plate Count	APHA 9215B 23 rd Ed
		Membrane Filter Technique for members of the Coliform group	APHA 9222B 23 rd Ed
		Membrane filter technique for Thermotolerant (Fecal Coliform)	APHA 9222B & G 23 rd Ed
		Membrane Filtration Technique for EColi	APHA 9222B & H 23 rd Ed

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Microbiology	Ice, Dental Clinic, Domestic & Potable water, Recreational (swimming pool) & Fountain water, non potable, Bottled water, Sea water, sludge & Waste Water	Membrane Filtration Technique for Fecal enterococci/ streptococci	APHA 9230C 23 rd Ed
		Membrane Filtration Technique for Pseudomonas aeruginosa	APHA 9213 E 23 rd Ed
		Heterotrophic Plate Count/Colony count (22 °C & 37 °C)	TP02-01.HPC
		Enumeration of Clostridium perfringens (including spores)	TP01-01.WCP
	Air/Environment	Total aerobic mesophile count	ISO 4833-2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Air/Environment	Enumeration of Yeast & Moulds	ISO 21527-2
Microbiology/ Chemistry	Ice, Dental Clinic, Domestic & Potable water, Recreational (swimming pool) & Fountain water, non potable, Bottled water, Sea water,Sludge & Waste Water	Water sampling procedure	LP22-01.WSP

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Issue no.: 04

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Swimming Pool/ Jacuzzi/ Fountain/ Domestic water/ Tank water/ Irrigation water/ Water features/ Chiller water/ Boiler water/Water dispenser/ Domestic/ Drinking/ Tank/Potable/ Unbottled/ Bottled/ Tap/ Hot & Cold system/ Seawater/ wastewater	Carbonate Alkalinity	APHA 2320 B 23rd ed.
		Hardness (Carbonate)	APHA 2340 A,C 23rd ed.
		Hardness (Non- Carbonate)	APHA 2340 A,C 23rd ed.
		Chloride	APHA 4500-Cl ⁻ B 23rd ed.
		Sulphate	APHA 4500 SO ₄ ⁻ E 23rd ed.
		Free chlorine	LP03-02.LK
		Nitrite	APHA 4500 NO ₂ B
		Iron	APHA 3500 FeB
		Aluminium	APHA 3500 Al B

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		Nitrate	APHA 4500 NO3 B
		Phosphate	APHA 4500-P. C
		Silicate	APHA 4500 SiO2 C
		Total Dissolved Solids (TDS)	APHA 2540 C
		Total Dissolved Solids (TDS)	LP02-02.Cond.TDS
		Total Suspended Solids (TSS)	APHA2540D
		Color	APHA2120B

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		Odor	APHA2150C
		pH	LP01-02.pH
		Conductivity	APHA 2510 A & B
		Turbidity	APHA 2130B 23rd ed.
		Magnesium	APHA 3500 Mg B 23rd ed.
		Calcium	APHA 3500 Ca B 23rd ed.
		Calcium Hardness	APHA 3500 Ca B 23rd ed.
		Total Hardness	APHA 2340C 23rd ed.

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Chemistry	Swimming Pool/ Jacuzzi/ Fountain/ Domestic water/ Tank water/ Irrigation water/ Water features/ Chiller water/ Boiler water/Water dispenser/ Domestic/ Drinking/ Tank/Potable/ Unbottled/ Bottled/ Tap/ Hot & Cold system/ Seawater/ wastewater	Total Alkalinity as CaCO ₃	APHA 2320 B 23rd ed.
		Bicarbonate Alkalinity	APHA 2320 B 23rd ed.

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	All types of water including waste water	Biological Oxygen Demand	APHA 5210B
		Chemical Oxygen Demand	APHA 5220B

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04	Renewal of the accreditation and extension in scope	21-11-2022
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02	Extension in scope (add Chemistry test, Microbiology-Water and Microbiology/ Chemistry-Water)	19-01-2021
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Air Quality Monitoring Testing
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Issue no.: 02

Date: 21-11-2022

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Indoor Air Quality	Sampling & Analysis of Total Suspended Particulate Matter (TSPM), PM0.5, PM2.5, PM5.0, PM10.0 Range: to 0-2000	ISO 21501 Part 4
		Sampling & Analysis of Oxygen (O ₂) Range: 0.0 to 25.0%	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Sulphur Dioxide (SO ₂) Range: 0.0 to 50.00	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Oxides of Nitrogen (NO _x) Range: 0.00 to 20.00	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Hydrogen Sulphide (H ₂ S) Range: 0.00 to 50.0 ppm	LP04-03.IAQ Gases, using electrochemical sensor

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Indoor Air Quality	Sampling & Analysis of Ammonia Range:0.00 to 100.0 ppm	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Carbon Dioxide (CO ₂) Range: 0 to 1000ppm	LP04-03.IAQ Gases, using NDIR
		Sampling & Analysis of Carbon Monoxide (CO) Range: 0 to 1000 ppm	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Ozone (O ₃) Range: 0.00 to 1.0 ppm	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Formaldehyde (HCHO) Range: 20 to 1000 ppb	LP04-03.IAQ Gases, using electrochemical sensor
		Sampling & Analysis of Total Volatile Organic Compounds (TVOC) Range: 0 to 20000ppm	LP04-03.IAQ Gases using PID

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Indoor Air Quality	Noise/Sound Pressure Level Range: 30~130 dB	ISO 1996-2 ISO 1996-1
		Temperature Range: -10-50 °C	ASTM E337
		Relative Humidity Range: 0-100 %	ASTM E337
		Light Intensity Range: 1 to 200,000 Lux	BSEN 12464-1
		Clean Rooms and associated controlled environments Part 1: Classificat of air cleanliness by particle concentration RSPM (PM 0.3, 0.5, 1.0, 2.5, 5.0) Range: 0-5,000,000	ISO 14644-1 ISO 14644-2 ISO 14644-3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Ambient Air Quality	Total Suspended Particulate Matter (TSPM), PM0.5, PM2.5, PM5.0, PM10.0 Range: 0~1000 µg/m ³	USEPA-40 CFR part no:50 Appendix B
		Sampling & Analysis of Oxygen (O ₂) Range: 0.0 to 25.0%	ASTM D7607/D7607 M11E11
		Sampling & Analysis of Sulphur Dioxide (SO ₂) Range: 0~1000PPB	AS 3580.4.1
		Sampling & Analysis of Oxides of Nitrogen (NO _x) Range: 0~1000PPB	AS 3580.5.1
		Sampling & Analysis of Ozone (O ₃)	AS 3580.6.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Ambient Air Quality	Sampling & Analysis of Total Volatile Organic Compounds (TVOC) Range: 1 to 20000 ppm	AS 3580.11.1
		Sampling & Analysis of Carbon Monoxide (CO) Range: 0~100PPM	AS 3580.7.1
		Sampling & Analysis of Carbon Dioxide (CO ₂) Range: 0 to 1000 PPM	ASNZS 3580.1.1
		Sampling & Analysis of Hydrogen Sulphide (H ₂ S) Range: 0~100PPM	CCME- AmbientAirMonitoring 2011
		Sampling & Analysis of Ammonia Range: 0~100PPM	CCME- AmbientAirMonitoring 2011
		Temperature Range :-20°C to 70°C	ASTM E337

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Ambient Air Quality	Relative Humidity Range: 10%RH to 95%RH	ASTM E337
		Noise/Sound Pressure Level Range: 30~130	ISO 1996-2 ISO 1996-1
		Sampling & Analysis of Sulphur Dioxide (SO ₂) Range: 4.0 to 1000 (µg/m ³)	USEPA CFR-40, Appendix A-2 to Part-50
		Sampling & Analysis of Oxides of Nitrogen (NO _x) Range: 4.0 to 750 (µg/m ³)	EPA-650/4-75-023 Appendix A-3
		Sampling & Analysis of Ozone (O ₃) Range: 2.00 to 150 (µg/m ³)	CFR 40 -APPENDIX D (EPA-600/4-77-005)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Ambient Atmosphere	Ambient Air Quality	Sampling & Analysis of Ammonia Range: 0.2 to 300.0 ($\mu\text{g}/\text{m}^3$)	NIOSH Method 6015
		Total Suspended Particulate Matter (TSPM)	AS/NZS 3580.12.1
		PM10 Range: 5.00 to 5000.0 ($\mu\text{g}/\text{m}^3$)	USEPA-40 CFR part no:50 Appendix J
		PM2.5 Range:5.00 to 5000.0 ($\mu\text{g}/\text{m}^3$)	USEPA-40 CFR part no:50 Appendix L
Environmental	Fuel Gas Emission/ Stack Emission	Gas Velocity (0-40 m/sec)	USEPA Method 02
		Volumetric Flow rate	USEPA Method 02
		Stack Temperature Range: 0-1000 °C	USEPA Method 02

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Environmental	Fuel Gas Emission/ Stack Emission	Stack Flow Range: 0-60 LPM	USEPA Method 02
		Temperature Range: 0-1000 °C	USEPA Method 02
		Moisture content Range: 0-50%	USEPA EMC-004
		Carbon Monoxide Range: 0 to 1000 PPM	USEPA CTM-030/034
		Sulfur Dioxide Range: 0.00 to 50.00 PPM	USEPA 6C
		Nitric Oxide, Nitrogen Oxid, NO _x Range: 0.0 to 250.0 PPM	USEPA CTM-030/034
		Hydrocarbons Range: 100 - 40000ppm	USEPA CTM-030/034
		Carbon Dioxide (CO ₂) Range: 0 to 1000 PPM	USEPA CTM-3A

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Environmental	Fuel Gas Emission/ Stack Emission	Oxygen Range: 0.0 to 25.0%	USEPA CTM-3A
		Compounds (TVOC) Range: 0-1,000 ppm	USEPA 025B
		Particulate Matter (TSP) Range: 1-1000 Mg/m ³	USEPA Method 5 & 17

Accreditation History		
Issue no.	Details	Date
02	Renewal of the accreditation and extension in scope	21-11-2022
01	Granted accreditation from EIAC	29-06-2021