



# ACCREDITATION CERTIFICATE

**LB-TEST-019**

**Emirates International Accreditation Centre**

has accredited

**LONESTAR TECHNICAL SERVICES LLC.**

Building DY34 | Inside Dubai Ship Docking | Yard | Al Jadaf

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: 10-06-2024 to 09-09-2024

Initial Accreditation Date: 10-06-2003



  
Amina Ahmed Mohammed  
CHIEF EXECUTIVE OFFICER



## Accreditation Scope

### LB-TEST-019

**Lonestar Technical Services LLC.**

**Building DY34 | Inside Dubai Ship Docking | Yard | Al Jadaf**

**Dubai | United Arab Emirates**

**Date: 10-06-2024**

#### Environmental Testing

Accreditation History		
Issue no.	Details	Date
14	Certificate validity was extended for 3 months from 10-06-2024 up to 09-09-2024	10-06-2024
13	Re-issued due to extension in scope (Add Microbiology tests and Sampling test)	28-11-2023
12	Renewal accreditation	07-07-2021
11	Certificate validity (10-06-2018 to 09-06-2021) was extended for 6 months	10-06-2021
10	Extension in scope and first issuance under the name of Eiac (which was formerly known as DAC)	12/11/2019

#### Metallurgical Testing

08	Certificate validity was extended for 3 months from 10-06-2024 up to 09-09-2024	10-06-2024
07	Re-issued due to a voluntary reduction in scope	28-11-2023
06	Renewal accreditation	07-07-2021
05	Certificate validity (10-06-2018 to 09-06-2021) was extended for 6 months	10-06-2021
04	First issuance under the name of Eiac (which was formerly known as DAC)	12/11/2019

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**Date: 10-06-2024**

#### Air Quality Monitoring Testing

Accreditation History		
Issue no.	Details	Date
07	Certificate validity was extended for 3 months from 10-06-2024 up to 09-09-2024	10-06-2024
06	Re-issued due to extension in scope	28-11-2023
05	Renewal accreditation	07-07-2021
04	Certificate validity (10-06-2018 to 09-06-2021) was extended for 6 months	10-06-2021
03	First issuance under the name of Eiac (which was formerly known as DAC)	12/11/2019

#### Food Testing

02	Certificate validity was extended for 3 months from 10-06-2024 up to 09-09-2024	10-06-2024
01	Granted accreditation from Eiac	11/02/2022

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**Environmental Testing**

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Issue no.: 14

Date: 10-06-2024

Valid to: 09-09-2024

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Drinking Water	Sampling	APHA 1060 DM TGNO.35
		Temperature	US EPA 170.1
		Color	APHA 2120 B & C US EPA 110.1
		Chlorine (Residual)	APHA 4500 Cl G US EPA 330.3
		pH	APHA 4500 H <sup>+</sup> B & US EPA 150.1
		Conductivity	APHA 2510 B & US EPA 120.1
		TDS	APHA 2540 C & US EPA 160.1
		Salinity	APHA 2520 B
		Turbidity	APHA 2130 B & US EPA 180.1
		Total hardness as CaCO <sub>3</sub>	APHA 2340 C & US EPA 130.2
		Total alkalinity as CaCO <sub>3</sub>	APHA 2320 B & US EPA 310.1
Oil & grease	APHA 5520 A,B & US EPA 1664A		

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Issue no.: 14

Date: 10-06-2024

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Drinking Water	<b>Metals / ICP</b>	
		Sodium (Na)	APHA 3120 B
		Calcium (Ca)	APHA 3120 B
		Magnesium (Mg)	APHA 3120 B
		Potassium (k)	APHA 3120 B
		Boron (B)	APHA 3120 B
		Silica (SiO <sub>2</sub> )	APHA 3120B & US EPA 200.7
		Aluminum (Al)	APHA 3120B & US EPA 200.7
		Antimony (Sb)	APHA 3120B & US EPA 200.7
		Arsenic (As)	APHA 3120B & US EPA 200.7
		Barium (Ba)	APHA 3120B & US EPA 200.7
		Beryllium (Be)	APHA 3120B & US EPA 200.7
		Boron (B)	APHA 3120B & US EPA 200.7

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Drinking Water	<b>Metals / ICP</b>	
		Calcium (Ca)	APHA 3120B & US EPA 200.7
		Chromium (Cr)	APHA 3120B & US EPA 200.7
		Copper (Cu)	APHA 3120B & US EPA 200.7
		Iron (Fe)	APHA 3120B & US EPA 200.7
		Lead (Pb)	APHA 3120B & US EPA 200.7
		Magnesium (Mg)	APHA 3120B & US EPA 200.7
		Manganese (Mn)	APHA 3120B & US EPA 200.7
		Molybdenum (Mo)	APHA 3120B & US EPA 200.7
		Nickel (Ni)	APHA 3120B & US EPA 200.7
		Potassium (K)	APHA 3120B & US EPA 200.7
		Selenium (Se)	APHA 3120B & US EPA 200.7

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Drinking Water	<b>Metals / ICP</b>	
		Silver (Ag)	APHA 3120B & US EPA 200.7
		Sodium (Na)	APHA 3120B & US EPA 200.7
		Thallium (TL)	APHA 3120B & US EPA 200.7
		Titanium (Ti)	APHA 3120B & US EPA 200.7
		Vanadium (V)	APHA 3120B & US EPA 200.7
		Zinc (Zn)	APHA 3120B & US EPA 200.7
		<b>Anions / Ion Chromatography</b>	
		Fluoride (f)	APHA 4110 B & US EPA 300.1
		Nitrates (NO <sub>3</sub> )	APHA 4110 B & US EPA 300.1
		Nitrites (NO <sub>2</sub> )	APHA 4110 B & US EPA 300.1
		Sulphates (SO <sub>4</sub> )	APHA 4110 B & US EPA 300.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Drinking Water	<b>Anions / Ion Chromatography</b>	
		Chlorides (Cl)	APHA 4110 B & US EPA 300.1
		Phosphate (PO <sub>4</sub> )	APHA 4110 B & US EPA 300.1
		Bromate	APHA 4110 B & US EPA 300.1
		Chlorite	APHA 4110 B & US EPA 300.1
		Orthophosphate (PO <sub>4</sub> )	APHA 4110 B
		Total Cyanide	US EPA 335.3
		Perchlorate	US EPA 314
		Ammonia	APHA 4500-NH <sub>3</sub> B & USEPA350.1
		Total Sulfides	APHA 4500 S <sup>2-</sup> F & US EPA 376.1



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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Drinking Water	N-Hexane Extractable Material (HEM, Oil and Grease) and Silica Gel reacted N-Hexane Extractable Material (SGT-HEM:Non-Polar Material) by Extraction and Gravimetry)	US EPA Method 1664A
		Total Nitrites and Nitrates	US EPA 300.1
	Wastewater	Sampling	APHA 1060 & DM TGNO.35
		Temperature	US EPA 170.1
		pH	APHA 4500 H <sup>+</sup> B
		TDS	APHA 2540 C
		TSS	APHA 2540 D
		Oil & grease	APHA 5520 B
		BOD (5 days)	APHA 5210 B
		COD	APHA 5220 B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Wastewater	<b>Metals / ICP</b>	
		Nitrogen nitrates	APHA 4500 NO <sub>3</sub> B
		Nitrogen Nitrites	APHA 4500 NO <sub>2</sub> B
		Total nitrogen	APHA 4500 NC
		Total Sulfides	APHA 4500 S <sup>2-</sup> F
		Cadmium (Cd)	APHA 3120 B
		Chromium (Cr)	
		Cobalt (Co)	
		Copper (Cu)	
		Iron (Fe)	
		Lead (Pb)	
		Manganese (Mn)	
		Nickel (Ni)	
		Silver (Ag)	

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Chemical	Wastewater	<b>Metals / ICP</b>	
		Zinc (Zn)	APHA 3120 B
	Sludge	Sampling	DMS11, DM TGNO.35 APHA 1060
	Soil & sediments	N-Hexane Extractable Material (HEM) for sludge, Sediment and Solid Samples	US EPA Method 9071B
	Soils, Solids, Sludge, non aqueous liquids	pH	US EPA 9045D
	Soils, Solids, Sludge,	% Solids (Fixed, Volatile & Total)	US EPA 1684
		Oil content	US EPA 9071B APHA 5520E
	Soils for civil engineering purposes	Moisture Content (%)	US EPA CE 81/1
		Chlorides	BS 1377-3
	Hazardous waste	Total Metals:	US EPA SW 846/ 6010 B
Arsenic (As)			

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Chemical	Hazardous waste	Total Metals:	US EPA SW 846/ 6010 B
		Cadmium (Cd)	
		Chromium (Cr)	
		Cobalt (Co)	
		Copper (Cu)	
		Lead (Pb)	
		Nickel (Ni)	
		Selenium (Se)	
		Tin (Sn)	
		Zinc (Zn)	
		Mercury (Hg)	US EPA SW 846/ 7471 A
		Leachable Metals:	US EPA SW 846/ 1311/ 6010B
		Mercury (Hg)	
		Arsenic (As)	

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Chemical	Hazardous waste	Leachable Metals:	US EPA SW 846/ 1311/ 6010B
		Mercury (Hg)	
		Cadmium (Cd)	
		Chromium (Cr)	
		Cobalt (Co)	
		Copper (Cu)	
		Lead (Pb)	
		Nickel (Ni)	
		Selenium (Se)	
		Tin (Sn)	
	Zinc (Zn)		
		Mercury (Hg)	US EPA SW 846/ 1311/ 7471 A
	Plain Carbon & Low Alloy Steels	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, N, V, Nb, & Ti	In-House Reference Method CHM-SOP-117
	Stainless & High Alloy Steels	C, Si, Mn, P, S, Cr, Mo, Ni, Cu, N & V	In-House Reference Method CHM-SOP-138

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water / Waste Water	Heterotrophic Plate Count (TAB) : Pour Plate	APHA 9215B, 23 <sup>rd</sup> Edition
		Membrane Filtration	APHA 9215D, 23 <sup>rd</sup>
		Total Coliforms (TC) by Membrane Filtration	APHA 9222B, 23 <sup>rd</sup> Edition
		Escherichia coli by Membrane Filtration	APHA 9222D and 9225D, 23 <sup>rd</sup> Ed.
		Faecal Coliforms by Membrane Filtration	APHA 9222D, 23 <sup>rd</sup> Ed.
		Faecal Streptococci and Enterococci by Membrane Filtration	APHA 9230C, 23 <sup>rd</sup> Ed.
	Potable Water, Process Water & Recreational Water.	Water quality Enumeration of Legionella	ISO 11731 Matrix A : procedures 5, 7, 8, 9 & 10. Matrix B : procedures 7, 8, 9 & 10

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Purified Water, Water for Dialysis, Ultra Pure Dialysis Fluid.	Endotoxin Enumeration	In House Method CHM-SOP-323-00 based on the Genscript Toxin Sensor Chromogenic Limulus Amoebocyte Lysate Assay Test Method
	Swab enumeration	Aerobic Plate Count	BAM Chapter 3
	Swab enumeration	E. coli	CMMEF 9.91 5th Edition
	Swab enumeration	Enterobacteriaceae	ISO 21528-2:2017
	Swab enumeration	Staphylococcus aureus	CMMEF Chapter 39 5th Edition
	Potable Water, Processed Water, Recreational Water and Ice	Pseudomonas aeruginosa	ISO 16266:2006



مركز الإمارات العالمي للاعتماد  
Emirates International Accreditation Centre

## Accreditation Scope

### Environmental Testing

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Type of Activity	Test Materials/Products	Test Name	Test Method
Sampling	Food contact surface swab, Utensils and Hand Swabs	Swab Sampling Procedure	CMMEF Chapter 2 and 3 5th Edition CHM-SOP-406-00



## Accreditation Scope

### Metallurgical Testing

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Issue no.: 08

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical	Carbon Steel for the reinforcement of concrete	Bend & Re-bend	BS 4449: 2005 + AMD 2
			BS EN ISO 15630 Part 1
		Tensile Test (Ambient Temperature)	BS 4449: 2005 + AMD 2
			BS EN ISO 15630 Part 1
Mechanical	Metals, Alloys and Metal Products	Charpy Impact (-196°C & -40°C to Ambient)	ASTM A370
			ASTM E23
			BS EN ISO 148-1
		Brinell Hardness (HBW 1/10, 1/30, & 2.5 /62.5)	ASTM E10
			BS EN ISO 6506-1
		Rockwell Hardness (HRBW & HRC)	ASTM E18
BS EN ISO 6508-1			

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**Issue no.: 08**

**Date: 10-06-2024**

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical	Metals, Alloys and Metal Products	Vickers Hardness (HV5, HV10 & HV30)	ASTM E92
			BS EN ISO 6507-1
		Tensile Test (20 to 900 (Ambient Temperature))	ASTM A370
			ASTM E8/E8M
			BS EN ISO 6892-1
	Weldments	Bend Test	ASME SEC IX (Fillet)
			ASTM E190
			AWS B4.0M (Nick break)
			AWS D1.1 / D1.1M (Fillet)
			API 1104, 22 <sup>nd</sup> Edition (nick break)

**Accreditation Scope**

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical	Weldments	Bend Test	BS EN ISO 5173
		Charpy Impact (-196°C & -40°C to Ambient)	ASME SEC IX (Fillet)
			AWS B4.0M (Nick break)
			AWS D1.1 / D1.1M (Fillet)
			API 1104, 22 <sup>nd</sup> Edition (nick break)
			BS EN ISO 9016
		Fracture Test ( Fillet & Nick Break)	ASME SEC IX (Fillet)
			AWS B4.0M (Nick break)
			AWS D1.1 / D1.1M (Fillet)
			API 1104, 22 <sup>nd</sup> Edition (nick break)
BS EN ISO 9017 (Fillet)			

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Type of Activity	Test Materials/Products	Test Name	Test Method
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Mechanical	Weldments	Vickers Hardness (HV5, HV10 & HV30)	ASME SEC IX (Fillet)
			AWS B4.0M (Nick break)
			AWS D1.1 / D1.1M (Fillet)
			BS EN ISO 9015-1
		Macro Examination	ASME SEC IX (Fillet)
			AWS D1.1 / D1.1M (Fillet)
			BS EN ISO 17639
		Micro Examination	ASME SEC IX (Fillet)
			AWS D1.1 / D1.1M (Fillet)
BS EN ISO 17639			

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical	Weldments	Tensile Test (Ambient Temperature)	ASME SEC IX (Fillet)
			AWS B4.0M (Nick break)
			AWS D1.1 / D1.1M (Fillet)
			API 1104, 22 <sup>nd</sup> Edition (nick break)
			BS EN ISO 4136
Metallurgy	Nickel base and chromium bearing alloys	Critical Pitting Temperature	ASTM G48 Method C
	Metals, Alloys & Weldments	Corrosion Test: Sulfide Stress Cracking & Sulfide Stress Cracking	NACE TM0177 ASTM G39
	Pipe Line & Pressure Vessel Steels	Hydrogen Induced Cracking (HIC)	NACE TM0284
	Austenitic Stainless Steels	Inter-granular Corrosion	ASTM A262 A, B, C, and E

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallurgy	Wrought Nickel and Chromium Bearing Alloys	Inter-granular Corrosion	ASTM G28 Method A
	Stainless Steels, Nickel Base and Chromium Bearing Alloys	Pitting Resistance	ASTM G48 Method A
	Stainless Steels	Critical Pitting Temperature	ASTM G48 Method E

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Issue no.: 07

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality	Methods for sampling and analysis of ambient air Method 12.1: Determination of light scattering - Integrating	ASNZS 3580 Method 12.1
		Respirable Suspended Particulate Matter (RSPM - PM 2.5)	
		* Respirable Suspended Particulate Matter (RSPM - PM 10)	
		Total Suspended Particulate Matter (TSPM)	

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality	Method for sampling and analysis of ambient air Part 15: Determination of gaseous pollutants in ambient air using differential optical absorption spectrometry (DOAS)-Direct-reading instrumental method: Carbon Monoxide (CO)	ASNZS 3580 Part 15
		Method for sampling and analysis of ambient air Part 15: Determination of gaseous pollutants in ambient air using differential optical absorption spectrometry (DOAS)-Direct-reading instrumental method:	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality	Carbon Dioxide (CO <sub>2</sub> )	ASNZS 3580 Part 15
		Oxygen (O <sub>2</sub> )	
		Formaldehyde (CH <sub>2</sub> O)	
		Ozone (O <sub>3</sub> )	
		Sulphur Dioxide (SO <sub>2</sub> )	
		Nitrogen Dioxide (NO <sub>2</sub> )	
		Total Volatile Organic Compounds (TVOC)	

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Chemical	Indoor Air Quality	Methods for sampling and analysis of ambient air  Part 14: Meteorological monitoring for ambient air quality monitoring applications: - Temperature, °C - Relative humidity, %	ASNZS 3580 Part 14
	Indoor Air Quality/ Ambient Atmosphere	Particulate Matter(PM 10)	MASA 501
		Total Suspended Particulates (TSP)	MASA 501
		Sulfur Dioxide (SO <sub>2</sub> )	MASA 704-A
		Oxide of Nitrogen (NOX)	MASA 408
		Ozone (O <sub>3</sub> )	MASA 411
		Carbon Monoxide (CO)	Multi-ray Gas Analyzer(Electrochemical Sensor)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality/ Ambient Atmosphere	Noise	ISO 1996-2 Acoustic Part 2
		Stack Emission	Particulate Matter (PM)
		Carbon Monoxide (CO)	US EPA CTM 030/ CTM034
		Oxide of Nitrogen (NOX)	US EPA CTM 030/ CTM034
		Sulfur Dioxide (SO <sub>2</sub> )	US EPA # 6 C
		Nitrogen Dioxide (NO <sub>2</sub> )	US EPA CTM 030/ CTM034
		Sampling and analysis of total volatile organic carbon by digital data logging instrument	1h-house validated method CHM-SOP-408- 00- TVOC
		Determination of oxygen (O <sub>2</sub> ) using portable analyzers	USEPA CTM 030

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**LB-TEST-019**

**Lonestar Technical Services LLC.**

**Building DY34 | Inside Dubai Ship Docking | Yard | Al Jadaf**

**Dubai | United Arab Emirates**

**Issue no.: 07**

**Date: 10-06-2024**

**Valid to: 09-09-2024**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Stack Emission	Determination of carbon dioxide (CO2) using portable analyzers	USEPA METHOD 3A
	Ambient Air	Sampling and analysis of particulate matters (PM 2.5, PM 10) by light scattering - Integrating nephelometer method	AS/NZS 3580.12.1-2015
		Sampling and analysis of total suspended particulate matters (TSP) by light scattering - Integrating nephelometer method	AS/NZS 3580.12.1-2015
		Determination of oxides of nitrogen (Nox) by direct-reading instrumental method	AS 3580.5.1:2011

## Accreditation Scope

### Air Quality Monitoring Testing

#### LB-TEST-019

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Date: 10-06-2024

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Ambient Air	Determination of sulfur dioxide (SO <sub>2</sub> ) by direct reading instrumental method	AS 3580.4.1: 2018
		Determination of carbon monoxide (CO) by direct-reading instrumental method	AS 3580.7.1: 2011 & 2012
		Determination of Ozone (O <sub>3</sub> ) by direct-Reading Instrumental Method	AS 3580.6.1:2016
		Determination of Hydrogen sulfide (H <sub>2</sub> S)	lh-house validated method CHM-SOP-407
		Determination of ammonia (NH <sub>3</sub> )	lh-house validated method CHM-SOP-407

**Accreditation Scope**  
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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical	Noise (Indoor & Workplace)	Acoustics — Description, measurement and assessment of environmental noise Part 2: Determination of sound pressure levels	ISO 1996 Part 2
	Luminosity (Indoor & Workplace)	Interior and workplace lighting Part 3: Measurement, calculation and presentation of photometric data	ASNZS 1680 Part 3
	Ambient Air	Determination of Wind Direction	AS/NZS 3580.14-2014
Determination of Wind Speed		AS/NZS 3580.14-2014	



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Emirates International Accreditation Centre

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical	Ambient Air	Determination of Relative Humidity	AS/NZS 3580.14-2014
		Determination of temperature	AS/NZS 3580.14-2014

## Accreditation Scope

### Food Testing

### LB-TEST-019

**Lonestar Technical Services LLC.**

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Issue no.: 02

Date: 10-06-2024

Valid to: 09-09-2024

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food (Raw and Cooked Meats, Ready to Eat Meals, Dairy Products, Confectionary, Bakery, Salad Products, Spices, Condiments and Sea Foods)	Yeast & Mold	USFDA BAM : Chapter 18
		Total Coliforms	USFDA BAM : Chapter 4
		Faecal Coliforms	USFDA BAM : Chapter 4
		Escherichia coli	USFDA BAM : Chapter 4
		Clostridium perfringens	USFDA BAM : Chapter 16
		Staphylococcus aureus	USFDA BAM : Chapter 12
		Salmonella spp	ISO 6579:1-2017 : AMD 1 : 2020
		Enterobacteriaceae	ISO 21528:2-2017
		Listeria monocytogens	USFDA BAM : Chapter 10
		Total Bacterial Count	USFDA BAM : Chapter 3
Listeria spp	Neogen Reveal Listeria 2.0		



## Accreditation Scope

### Food Testing

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Issue no.: 02

Date: 10-06-2024

Valid to: 09-09-2024

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Sea Food	Vibrio parahemolyticus	USFDA BAM : Chapter 9
	Raw Meat (ground or diced), Salad products, Sprouted Seeds, Raw Vegetables and Cooked Meats	Escherichia coli O157	AOAC 2000.14 Neogen Reveal Ecoli O157
	Food (Ready to Eat Meals / Rice, Dairy Products, Salad / Vegetables and Spices)	Bacillus cereus	USFDA BAM : Chapter 14
Sampling	Food	Food Sampling	USFDA BAM : Chapter 1 CHM-SOP-350-00