



Accreditation Scope

AL MUBTAKAR LABORATORY, NAL 142 Testing Laboratory, (ISO/IEC 17025:2017)

M14, Musaffah, Abu Dhabi, United Arab Emirates

Issue Date: 09-02-2022

Expiry Date: 08-06-2023

Issue No: 07

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)
Chemical	Water/ Wastewater	pH 1 to 14 pH units	APHA 4500 H+ B, 23rd edition 2017	P
		Conductivity >1 μ S/Cm	APHA 2510B, 23 rd edition 2017	
		Turbidity >0.05 NTU	APHA 2130B, 23 rd edition 2017	
		Total Dissolved Solids (TDS) >1 mg/L	APHA 2540C, 23 rd edition 2017	
		Total Suspended Solids (TSS) >1 mg/L	APHA 2540D, 23 rd edition 2017	
		Alkalinity mg CaCO ₃ /L >2 mg/L	APHA 2320B, 23 rd edition 2017	
		Carbonate Alkalinity as CaCO ₃ >2 mg/L	APHA 2320B, 23 rd edition 2017	
		Bicarbonate alkalinity as CaCO ₃ >2 mg/L	APHA 2320B, 23 rd edition 2017	
		Hardness by Calculation (mg equivalent CaCO ₃ /L) >2 mg/L	APHA 2340B, 23 rd edition 2017	
		Calcium hardness as CaCO ₃ as CaCO ₃ /L >2 mg/L	M-SOP-27 Issue 01 Effective date 12/11/2019, Version 01 Rev 0 dated 12/11/2019	



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Chemical	Water/ Wastewater	Calcium (Ca) >0.03 mg/L	APHA 3120B (Analysis), 23 rd edition 2017 APHA 3030E (Digestion), 23 rd edition 2017	P
		Magnesium (Mg) >0.003 mg/L		
		Iron (Fe) >0.002 mg/L		
		Sodium (Na) >0.4 mg/L		
		Potassium (K) >0.1mg/L		
		Chromium (Cr) >0.003 mg/L		
		Cadmium (Cd) >0.002 mg/L		
		Nickel (Ni) >0.002 mg/L		
		Zinc (Zn) >0.004 mg/L		
		Lead (Pb) >0.004 mg/L		
		Copper (Cu) >0.002 mg/L		
		Manganese (Mn) >0.002 mg/L		



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Chemical	Water/ Wastewater	Chloride >0.1mg/L	APHA 4500Cl B, 23 rd edition 2017	P
		Sulphates as SO ₄ ²⁻ >2.0mg/L	HACH 8051, 10/2019 Edition 11	
		Fluoride >0.02mg/L	HACH 8029, 08/2018 Edition 10	
		Nitrate >0.1mg/L	HACH 8171, 01/2014 Edition 9	
		Nitrite >0.002mg/L	HACH 8507, 08/2019 Edition 11	
		Free Chlorine >0.02mg/L	HACH 8021, 01/2014 Edition 9	
Microbiological	Water/ Wastewater	Heterotrophic plate count >1CFU/ml	APHA 9215B, 23 rd edition 2017	P
		Enumeration of Total Coliforms >1CFU/100ml	APHA 9222B, 23 rd edition 2017	
		Enumeration of Fecal Coliforms >1CFU/100ml	APHA 9222B, 23 rd edition 2017 APHA 9221E, 23 rd edition 2017	
		Enumeration of E. coli >1CFU/100ml	APHA 9222B, 23 rd edition 2017 APHA 9221F, 23 rd edition 2017	
		Enumeration of Pseudomonas aeruginosa >1/100ml	APHA 9213E, 23 rd edition 2017	



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Microbiological	Water/ Wastewater	Enumeration of Enterococci >1 Presumptive Enterococci/100ml	APHA 9230C, 23 rd edition 2017	P
	Water (Matrix A & B)	Detection and Enumeration of Legionella (>1CFU/L)	ISO 11731:2017 Matrix A Procedure 5, 7 Matrix B Procedure 8,9,10	
	Swab (Hand and Surface)	Aerobic Plate Count	USFDA BAM Chapter 3, 2008 M-EN-SOP-04 Issue 01 Effective date: 14/10/2021, Version 01, Rev 0	
		Enumeration of Coliforms	USFDA BAM Chapter 4, 2017 M-EN-SOP-02 Issue 01 Effective date: 14/10/2021, Version 01, Rev 0	
		Enumeration of E. coli	USFDA BAM Chapter 4, 2017 M-EN-SOP-02 Issue 01 Effective date: 14/10/2021, Version 01, Rev 0	
	Enumeration of <i>Staphylococcus aureus</i>	USFDA BAM Chapter 12, 2016 M-EN-SOP-03 Issue 01 Effective date: 14/10/2021, Version 01, Rev 0		
Noise	Noise	Occupational Noise/ Personnel Noise Exposure	M-EN-SOP-05 Issue 01 Effective date: 10/10/2021, Version 01, Rev 1 dated 18/11/2021 based on ISO 1996-2:2017	S



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Environmental	Indoor air	Total Bacterial Count, Yeast and Mould count	M-EN-SOP-01 Issue 01 Effective date: 14/10/2021, Version 01, Rev dated 22/11/2021	P
		Temperature, Relative Humidity, Carbon Dioxide, Carbon Monoxide, Nitrogen Dioxide, Sulphur Dioxide, Total Volatile Organic Compounds, Ozone, Ammonia, Hydrogen Sulphide, Formaldehyde, Oxygen	M-EN-SOP-07 Issue 01 Effective date: 06/11/2021, Version 01, Rev 1 dated 05/12/2021	S
		PM1, PM2.5, PM4, PM7, PM10, TSP	M-EN-SOP-08 Issue 01 Effective date: 6/11/2021, Version 01, Rev 1 dated 05/12/2021	
Illumination	Light Intensity	Light Intensity / Illumination Level	M-EN-SOP-06 Issue 01 Effective date: 10/10/2021, Version 01, Rev 0 based on BS 667:2005	S



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Sampling	Water	Sampling of Water	APHA 9060A, 23 rd edition 2017	S
		Sampling of Water for Legionella Testing	BS 7592:2008	
	Hand Swab	Sampling of Hand Swab	M-EN-SOP-09 Issue 01 Effective date: 14/10/2021, Version 01, Rev 0	
	Surface Swab	Sampling of Surface Swab	M-EN-SOP-09 Issue 01 Effective date: 14.10.2021, Version 01, Rev 0	
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