



Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31944



Request No. : WA-Q-L-2101-04504

Sample No. : WA-S-L-2101-31401

Sampling Date	: 07/01/2021	Report Date.	: 11/01/2021
Analysis Start Date.	: 07/01/2021	Analysis End Date.	: 10/01/2021
Sample Location.	: City of Lights C10 Sigma 1	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3287	Sampling Method	: APHA 9060 A&B
Temperature °C	: 10.6	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: C10 Sigma 1 - Basement 2
Sampling Point	: ETS Room	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Head of Microbiology Department

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Legionella Test Report

Customer Details

Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31945



Request No. : WA-Q-L-2101-04504

Sample No. : WA-S-L-2101-31402

Sampling Date	: 07/01/2021	Report Date.	: 18/01/2021
Analysis Start Date.	: 07/01/2021	Analysis End Date.	: 17/01/2021
Sample Location.	: City of Lights C10 Sigma 1	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3287	Sampling Method	: BS 7592
Temperature °C	: 10.6	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: C10 Sigma 1 - Basement 2
Sampling Point	: ETS Room	Preservation	: 10°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection= \leq 20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Head of Microbiology Department



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Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31948



Request No. : WA-Q-L-2101-04506

Sample No. : WA-S-L-2101-31405

Sampling Date	: 07/01/2021	Report Date.	: 11/01/2021
Analysis Start Date.	: 07/01/2021	Analysis End Date.	: 10/01/2021
Sample Location.	: City of Lights C11 Sigma 2	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3287	Sampling Method	: APHA 9060 A&B
Temperature °C	: 10.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: C11 Sigma 2 - Basement 2
Sampling Point	: ETS Room	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Head of Microbiology Department



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Legionella Test Report

Customer Details

Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31949



Request No. : WA-Q-L-2101-04506

Sample No. : WA-S-L-2101-31406

Sampling Date	: 07/01/2021	Report Date.	: 18/01/2021
Analysis Start Date.	: 07/01/2021	Analysis End Date.	: 17/01/2021
Sample Location.	: City of Lights C11 Sigma 2	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3287	Sampling Method	: BS 7592
Temperature °C	: 10.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: C11 Sigma 2 - Basement 2
Sampling Point	: ETS Room	Preservation	: 10°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Head of Microbiology Department



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CLIENT: TAFAWUQ FACILITY MANAGEMENT
 SITE: CITY OF LIGHTS
 AL REEM ISLAND
 ABU DHABI

VISIT DATE: 26 Jan 2021

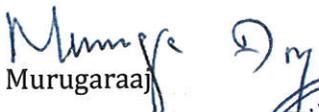
CHILLED WATER ANALYSIS

Test	SIGMA 1	SIGMA 2			
pH	9.89	9.85			
	8.5 - 10.0	8.5 - 10.0			
Conductivity, $\mu\text{s}/\text{cm}$	1852	1734			
	< 2250	< 2250			
Total Dissolved Solid, ppm	1203	1127			
	< 1500	< 1500			
Iron, ppm as Fe	<0.10	0.11			
	0 - 1	0 - 1			
Total Hardness, ppm	76	72			
	< 100	< 100			
Total Alkalinity, ppm	72	74			
	< 250	< 250			
Chlorides as Cl-, ppm	54	84			
	< 150	< 150			
Nitrite, ppm	870	840			
	800 - 1000	800 - 1000			

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (μmhos).

BUILDING	COMMENTS	ACTION
SIGMA 1	All Parameters are in within control limit	No action recommended
SIGMA 2	All Parameters are in within control limit	No action recommended

Reported By:


 Murugaraaj
 Service Engineer

