



**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-2101-31958



Request No. : WA-Q-L-2101-04510

Sample No. : WA-S-L-2101-31415

Sampling Date	: 07/01/2021	Report Date.	: 10/01/2021
Analysis Start Date.	: 07/01/2021	Analysis End Date.	: 10/01/2021
Sample Location.	: City of Lights C2 Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3285	Sampling Method	: APHA 9060 A&B
Temperature °C	: 10.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
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-2101-31959



Request No. : WA-Q-L-2101-04510

Sample No. : WA-S-L-2101-31416

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 C2 Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3285	Sampling Method	: BS 7592
Temperature °C	: 10.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
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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**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-2101-31956



Request No. : WA-Q-L-2101-04509

Sample No. : WA-S-L-2101-31413

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 C3 Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3285	Sampling Method	: APHA 9060 A&B
Temperature °C	: 11.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
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

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**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-2101-31957



Request No. : WA-Q-L-2101-04509

Sample No. : WA-S-L-2101-31414

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 C3 Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3285	Sampling Method	: BS 7592
Temperature °C	: 11.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
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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CLIENT: TAFAWUQ FACILITY MANAGEMENT  
 SITE: CITY OF LIGHTS  
 AL REEM ISLAND  
 ABU DHABI

VISIT DATE: 26 Jan 2021

### CHILLED WATER ANALYSIS

Test	C2 LZ	C3 LZ			
pH	9.47	9.89			
	8.5 - 10.0	8.5 - 10.0			
Conductivity, $\mu\text{S}/\text{cm}$	1870	1961			
	< 2250	< 2250			
Total Dissolved Solid, ppm	1215	1274			
	< 1500	< 1500			
Iron, ppm as Fe	0.12	0.16			
	0 - 1	0 - 1			
Total Hardness, ppm	82	86			
	< 100	< 100			
Total Alkalinity, ppm	91	69			
	< 250	< 250			
Chlorides as Cl <sup>-</sup> , ppm	64	72			
	< 150	< 150			
Nitrite, ppm	840	870			
	800 - 1000	800 - 1000			

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

BUILDING	COMMENTS	ACTION
C2 - LZ	All Parameters are in within control limit	No action recommended
C3 - LZ	All Parameters are in within control limit	No action recommended

Reported By:

  
 Murugaraaj  
 Service Engineer

