



**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-2101-31964



Request No. : WA-Q-L-2101-04512

Sample No. : WA-S-L-2101-31421

Sampling Date	: 07/01/2021	Report Date.	: 10/01/2021
Analysis Start Date.	: 06/01/2021	Analysis End Date.	: 09/01/2021
Sample Location.	: City of Lights C10A Omega Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3288	Sampling Method	: APHA 9060 A&B
Temperature °C	: 12.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
Sampling Point	: ETS Room - Low Zone	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



Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-03 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -



**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-2101-31966



Request No. : WA-Q-L-2101-04512

Sample No. : WA-S-L-2101-31423

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 C10A Omega Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3288	Sampling Method	: BS 7592
Temperature °C	: 12.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
Sampling Point	: ETS Room - Low Zone	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



Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-03 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -



**Microbiology Test Report**

**Customer Details**

Report No. WA-R-L-2101-31965

**Crystalline Cleaning & Environmental Services**

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



Request No. : WA-Q-L-2101-04512

Sample No. : WA-S-L-2101-31422

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 C10A Omega Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3288	Sampling Method	: APHA 9060 A&B
Temperature °C	: 11.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
Sampling Point	: ETS Room - High Zone	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



Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-01 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -



**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-2101-31967



Request No. : WA-Q-L-2101-04512

Sample No. : WA-S-L-2101-31424

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 C10A Omega Tower	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3288	Sampling Method	: BS 7592
Temperature °C	: 11.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: B2
Sampling Point	: ETS Room - High Zone	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

Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-03 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -

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

VISIT DATE: 26 Jan 2021

### CHILLED WATER ANALYSIS

Test	OMEGA HZ	OMEGA LZ			
pH	10.12	9.97			
	8.5 - 10.0	8.5 - 10.0			
Conductivity, $\mu\text{s}/\text{cm}$	2268	2052			
	< 2250	< 2250			
Total Dissolved Solid, ppm	1474	1339			
	< 1500	< 1500			
Iron, ppm as Fe	0.12	0.11			
	0 - 1	0 - 1			
Total Hardness, ppm	76	69			
	< 100	< 100			
Total Alkalinity, ppm	68	74			
	< 250	< 250			
Chlorides as Cl <sup>-</sup> , ppm	72	69			
	< 150	< 150			
Nitrite, ppm	930	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
OMEGA HZ	pH & Conductivity levels are slightly high	Please arrange to drain the water
OMEGA LZ	All Parameters are in within control limit	No action recommended

Reported By:

  
 Murugaraaj  
 Service Engineer

