



Legionella Test Report

Customer Details

Report No. WA-R-L-2008-16015

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2008-02376

Sample No. : WA-S-L-2008-15493

Sampling Date	: 29/07/2020	Report Date.	: 09/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 08/08/2020
Sample Location.	: C10-A Building - Omega Tower , Reem Island	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09180	Sampling Method	: BS 7592
Temperature °C	: 31°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Jacuzzi Water
Sampling Point	: Jacuzzi	Preservation	: 10°C
Sample Description	: Pool Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/L

Note : Not Detected=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter followed by Washing Procedure in Funnel.

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

Senior Microbiologist

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

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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-2008-16014



Request No. : WA-Q-L-2008-02376

Sample No. : WA-S-L-2008-15492

Sampling Date	: 29/07/2020	Report Date.	: 03/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 31/07/2020
Sample Location.	: C10-A Building - Omega Tower , Reem Island	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09180	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31°C	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Jacuzzi Water
Sampling Point	: Jacuzzi	Preservation	: 4-8°C
Sample Description	: Pool 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	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	1000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero/100ml
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limit based on: Guide to the Executive Regulations of Law No.(2) for the year of 2012 (Swimming Pool),

Issued by the head of urban planning and municipalities No.(3) for the year 2018, Page No.3.

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.



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2008-16014

Signed for and on behalf of Wimpey Laboratories

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Senior Microbiologist



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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-2008-16001



Request No. : WA-Q-L-2008-02376

Sample No. : WA-S-L-2008-15479

Sampling Date	: 29/07/2020	Report Date.	: 09/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 08/08/2020
Sample Location.	: C10-A Building - Omega Tower , Reem Island	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09180	Sampling Method	: BS 7592
Temperature °C	: 30°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Swimming Pool Water
Sampling Point	: Pool	Preservation	: 10°C
Sample Description	: Pool Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/L

Note : Not Detected=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter followed by Washing Procedure in Funnel.

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.

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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-2008-15988



Request No. : WA-Q-L-2008-02376

Sample No. : WA-S-L-2008-15466

Sampling Date	: 29/07/2020	Report Date.	: 03/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 31/07/2020
Sample Location.	: C10-A Building - Omega Tower , Reem Island	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09180	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30°C	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Swimming Pool Water
Sampling Point	: Pool	Preservation	: 4-8°C
Sample Description	: Pool 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	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	1000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero/100ml
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limit based on: Guide to the Executive Regulations of Law No.(2) for the year of 2012 (Swimming Pool), Issued by the Head of Urban Planning and Municipalities No.(3) for the year 2018, Page No.3.

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.



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2008-15988

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist



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SWIMMING POOL - WATER ANALYSIS REPORT

Client Name: TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
Site Name:	Omega C10a	Visit Date:	29-07-2019
Sampled By:	Crystalline Rep.	Sample Point	Jacuzzi - 08 th Floor
Source of Sample	Swimming Pool		

TEST RESULT

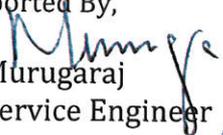
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.26
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	---	298
3	TDS, ppm	Max 1500	193
4	Alkalinity	80 - 120	87
5	Calcium Hardness	200 - 500	210
6	Residual Chlorine	1.0 - 3.0	1.16
7	Cyanuric Acid	20 - 60	24
8	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS

- pH levels are satisfactory - No action recommended
- Alkalinity & Cyanuric acid levels are satisfactory - No action recommended

Reported By,


Murugaraj
Service Engineer





SWIMMING POOL - WATER ANALYSIS REPORT

Client Name: TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
Site Name:	Omega C10a	Visit Date:	29-07-2019
Sampled By:	Crystalline Rep.	Sample Point	Main Swimming Pool - 08 th Floor
Source of Sample	Swimming Pool		

TEST RESULT

No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.36
2	Conductivity at 25°C, µs/cm	---	278
3	TDS, ppm	Max 1500	180
4	Alkalinity	80 - 120	83
5	Calcium Hardness	200 - 500	209
6	Residual Chlorine	1.0 - 3.0	1.31
7	Cyanuric Acid	20 - 60	25
8	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS

- pH levels are satisfactory - No action recommended
- Alkalinity & Cyanuric acid levels are satisfactory - No action recommended

Reported By,
Murugaraj
Murugaraj
Service Engineer

