



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-2009-19473



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18701

Sampling Date	: 10/09/2020	Report Date.	: 21/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 20/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 06
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

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

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

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

Analyst	Reviewed By	Method Variation
SN	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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Customer Details

Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2009-19472



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18700

Sampling Date	: 10/09/2020	Report Date.	: 21/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 20/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 04
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

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

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

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

Analyst	Reviewed By	Method Variation
SN	SM	None

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

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Head of Microbiology Department

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Legionella Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2009-19471



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18699

Sampling Date	: 10/09/2020	Report Date.	: 21/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 20/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Ray 06
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

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

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

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

Analyst	Reviewed By	Method Variation
SN	SM	None

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

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2009-19470



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18698

Sampling Date	: 10/09/2020	Report Date.	: 21/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 20/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Utility
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

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

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

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

Analyst	Reviewed By	Method Variation
SN	SM	None

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

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

Report No. WA-R-L-2009-19469



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18697

Sampling Date	: 10/09/2020	Report Date.	: 21/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 20/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Aviation
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

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

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

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

Analyst	Reviewed By	Method Variation
SN	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-2009-19468



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18696

Sampling Date	: 10/09/2020	Report Date.	: 14/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 13/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 06
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

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
SN	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



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

Report No. WA-R-L-2009-19467



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18695

Sampling Date	: 10/09/2020	Report Date.	: 14/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 13/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 04
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

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
SN	SM	None

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

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

Report No. WA-R-L-2009-19466



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18694

Sampling Date	: 10/09/2020	Report Date.	: 14/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 13/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Ray 06
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

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
SN	SM	None

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

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

Report No. WA-R-L-2009-19465



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18693

Sampling Date	: 10/09/2020	Report Date.	: 14/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 13/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Utility
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

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
SN	SM	None

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

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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2009-19464



Request No. : WA-Q-L-2009-02919

Sample No. : WA-S-L-2009-18692

Sampling Date	: 10/09/2020	Report Date.	: 14/09/2020
Analysis Start Date.	: 10/09/2020	Analysis End Date.	: 13/09/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1793	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Aviation
Sampling Point	: Tap Water	Preservation	: Not Given
Sample Description	: Water		

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

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
SN	SM	None

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

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