



**We take testing
seriously:**

**SG-WDS Series
SGS and ALS
Tests**

ProMedUSA Model SG-WDS/ICE

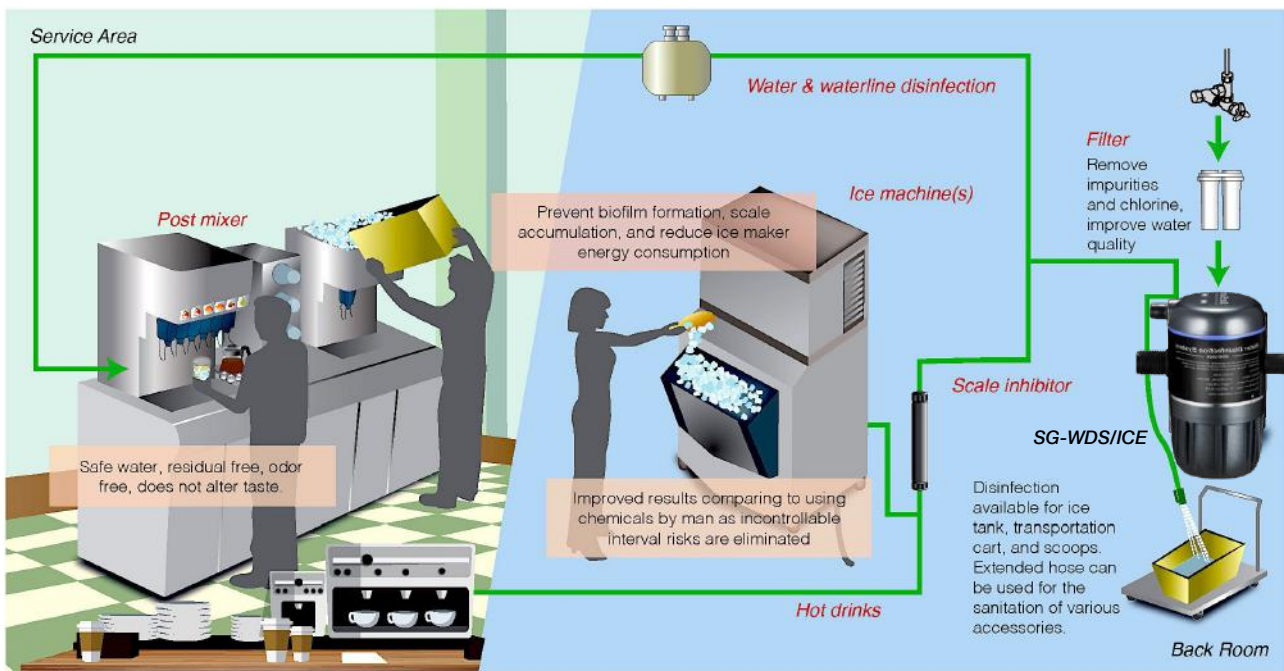
ICE & BEVERAGE SOLUTIONS

Enormous food safety risks occur when there is a build-up of biofilm and slime in your ice and beverage machines and in the water lines supplying those units. Dangerous pathogens like Salmonella, E. coli, Listeria, Candida, Norovirus attach to the biofilm and slime and multiply and breed contaminating the ice and cold water.

The ProMedUSA Model SG-WDS/ICE is proven to instantly kill those dangerous pathogens and prevent the biofilm build-up.

SGS OZONATED WATER TEST RESULTS					
Test Item	0 Sec	5 Sec	15 Sec	Reduction(%)	
Antimicrobial Efficacy Tests	Staphylococcus aureus(CFU/ml)	5.4×10^5	not detected	not detected	>99.999
	Escherichia Coli(CFU/ml)	2.5×10^5	6.1×10	< 10	99.99
	Salmonella(CFU/ml)	1.7×10^5	1.9×10	not detected	99.9
	Pseudomonas aeruginosa(CFU/ml)	4.5×10^5	not detected	not detected	>99.999
	Candida albicans(CFU/ml)	1.3×10^5	not detected	not detected	>99.999
	MRSA(CFU/ml)	1.3×10^5	not detected	not detected	>99.999

The above test results, by SGS show the efficiency of the ozonated water produced by the ProMedUSA Biosure SG-WDS/ICE unit. Exposure times of 5 seconds and 15 seconds show remarkable kill rates of up to 99.999%. SGS is the world's leading inspection, verification, testing and certification laboratory, and is recognized as the global benchmark for quality and integrity.



Typical SG-WDS/ICE Installation

ProMedUSA

Ozone Water Disinfection System

Hand Wash Effectiveness*



PATHOGEN	WASH TIME	% REDUCTION
Staphylococcus aureus	5 seconds	99.9%
	15 seconds	99.999%
E.coli	5 seconds	99.9%
	15 seconds	99.999%
Salmonella	5 seconds	99.999%
	15 seconds	99.9999%
MRSA	5 seconds	99.99%
	15 seconds	99.999%
HFMD (Coxsackie)	5 seconds	99.9%
	15 seconds	99.99%
Listeria	5 seconds	99.999%
	15 seconds	99.999%
Legionella	5 seconds	Not tested
	15 seconds	99.99%
Hepatitis A	5 seconds	99.9%
	15 seconds	99.99%
Norovirus	5 seconds	99.9%
	15 seconds	99.999%

*Tested by Dokkyo Medical University (Japan) and also by SGS Worldwide Testing and Certification Service (Swiss) with 5 and 15 second exposures to ozonated water of 5 ppm.

SAFETY DATA SHEET

Ozone Water MSDS: 0.0.0.0

1. Product and Company Identification

Product identifier	WDS
Other means of identification	Ozonated Water
Recommended use	Not available.
Recommended restrictions	None known.
Manufacturer information	Biotek Environmental Science Ltd 5F/98 Xingde Road Sanzhong District 24158 New Taipei City Taiwan

HEALTH	/ 0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	A



LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Supplier See above.

2. Hazards Identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
WHMIS 2015 defined hazards	Not classified
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Not applicable.
Storage	Not applicable.
Disposal	No special precautions required.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

3. Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	>99.99
Ozone		10028-15-6	<0.01

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

Inhalation	Not applicable.
Skin contact	Not applicable.
Eye contact	Not applicable.
Ingestion	Not applicable.

Test Report

No. HKGFD2000180801

Date: 19 Mar 2020

Page 1 of 2

BIOTEK OZONE HONG KONG LIMITED

RM 5, 7/F, BLOCK A, HONG KONG CENTRE 489-491 CASTLE PEAK ROAD, LAI CHI KOK, KOWLOON HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as :

Biotek product - Ozonated water produced by BIOSURE WDS ozonated water system

SGS Job No. :

Date of Sample Received : 05 Mar 2020

Conditions of Sample Received : Sample was in unopened original package and was delivered under ambient temperature

Sample Quantity Received : 1

Testing Period : 05 Mar 2020 - 10 Mar 2020

Test Requested/Test Method : - Antimicrobial Preservatives - Effectiveness was conducted with reference to The United States Pharmacopoeia, The National Formulary, USP29, NF24, 2006, General Chapter 51

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS Hong Kong Limited.Ng Chung Man
Senior Microbiologist

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Test Results :

Sample Description : Biotek product - Ozonated water produced by BIOSURE WDS ozonated water system

Antimicrobial Preservative - Effectiveness

<u>Organisms</u>	<u>Inoculum</u>	<u>5 Seconds</u>	<u>20 Seconds</u>	<u>60 Seconds</u>
E.Coli	4.2 X 10 ⁶ cfu/ml	<1 cfu/ml	<1 cfu/ml	<1 cfu/ml
% Reduction		>99.99 %	>99.99 %	>99.99 %
Log Reduction		>3	>3	>3

Note :

< = Less than

> = Greater than

cfu = colony forming unit

*** End of Report ***

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Test Report

No. HKGFD2000142102

Date: 16 Mar 2020

Page 1 of 2

BIOTEK OZONE HONG KONG LIMITED

RM 5, 7/F, BLOCK A, HONG KONG CENTRE 489-491 CASTLE PEAK ROAD, LAI CHI KOK, KOWLOON HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as :

Knife (Stainless Steel) (Surface swab) – spray with ozonated water produced by BIOSURE OSB spray bottle

SGS Job No. : 4562157
Date of Sample Received : 25 Feb 2020
Conditions of Sample Received : Sample was in unopened original package and was delivered under ambient temperature
Sample Quantity Received : 1
Testing Period : 25 Feb 2020 - 02 Mar 2020
Test Requested/Test Method : - Antimicrobial Preservatives - Effectiveness was conducted with reference to The United States Pharmacopoeia, The National Formulary, USP29, NF24, 2006, General Chapter 51
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS Hong Kong Limited.



Ng Chung Man
Senior Microbiologist



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Test Results :

Sample Description : Knife (Stainless Steel) (Surface swab) – spray with ozonated water produced by BIOSURE OSB spray bottle

Antimicrobial Preservative - Effectiveness

<u>Organisms</u>	<u>Inoculum</u>	<u>5 Seconds</u>	<u>20 Seconds</u>	<u>60 Seconds</u>
E.Coli	3.3 X 10 ⁶ cfu/ml	1.1 X 10 ² cfu/ml	11 cfu/ml	<1 cfu/ml
% Reduction		>99.99 %	>99.99 %	>99.99 %
Log Reduction		>3	>3	>3

Note :

< = Less than

> = Greater than

cfu = colony forming unit

*** End of Report ***

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Test Report

No. HKGFD2000180803

Date: 19 Mar 2020

Page 1 of 2

BIOTEK OZONE HONG KONG LIMITED

RM 5, 7/F, BLOCK A, HONG KONG CENTRE 489-491 CASTLE PEAK ROAD, LAI CHI KOK, KOWLOON HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as :

Human Hand (Surace swab) - washed with Ozonated water produced by BIOSURE WDS ozonated water system

SGS Job No. :

Date of Sample Received : 05 Mar 2020

Conditions of Sample Received : Sample was in unopened original package and was delivered under ambier temperature

Sample Quantity Received : 1

Testing Period : 05 Mar 2020 - 10 Mar 2020

Test Requested/Test Method : - Antimicrobial Preservatives - Effectivness was conducted with reference to The United States Pharmacopoeia, The National Formulary, USP29, NF24, 2006, General Chapter 51

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS Hong Kong Limited.Ng Chung Man
Senior Microbiologist

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Test Results :

Sample Description : Human Hand (Surface swab) - washed with Ozonated water produced by BIOSURE WDS ozonated water system

Antimicrobial Preservative - Effectiveness

<u>Organisms</u>	<u>Inoculum</u>	<u>5 Seconds</u>	<u>20 Seconds</u>	<u>60 Seconds</u>
Total Plate Count	4.2 X 10 ⁶ cfu/ml	<1 cfu/ml	<1 cfu/ml	<1 cfu/ml
% Reduction		>99.99 %	>99.99 %	>99.99 %
Log Reduction		>3	>3	>3

Note :

< = Less than

> = Greater than

cfu = colony forming unit

*** End of Report ***

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Test Report

No. HKGFD2000180804

Date: 19 Mar 2020

Page 1 of 2

BIOTEK OZONE HONG KONG LIMITED

RM 5, 7/F, BLOCK A, HONG KONG CENTRE 489-491 CASTLE PEAK ROAD, LAI CHI KOK, KOWLOON HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as :

Kitchen Cloth (Surace swab) - washed with Ozonated water produced by BIOSURE WDS ozonated water system

SGS Job No. :

Date of Sample Received : 05 Mar 2020

Conditions of Sample Received : Sample was in unopened original package and was delivered under ambier temperature

Sample Quantity Received : 1

Testing Period : 05 Mar 2020 - 10 Mar 2020

Test Requested/Test Method : - Antimicrobial Preservatives - Effectivness was conducted with reference to The United States Pharmacopoeia, The National Formulary, USP29, NF24, 2006, General Chapter 51

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS Hong Kong Limited.Ng Chung Man
Senior Microbiologist

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Test Results :

Sample Description : Kitchen Cloth (Surface swab) - washed with Ozonated water produced by BIOSURE WDS ozonated water system

Antimicrobial Preservative - Effectiveness

<u>Organisms</u>	<u>Inoculum</u>	<u>20 Seconds</u>	<u>60 Seconds</u>	<u>5 mins</u>
Total Plate Count	4.2 X 10 ⁶ cfu/ml	<1 cfu/ml	<1 cfu/ml	<1 cfu/ml
% Reduction		>99.99 %	>99.99 %	>99.99 %
Log Reduction		>3	>3	>3

Note :

< = Less than

> = Greater than

cfu = colony forming unit

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Test Report

No. HKGFD2000180802

Date: 19 Mar 2020

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BIOTEK OZONE HONG KONG LIMITED

RM 5, 7/F, BLOCK A, HONG KONG CENTRE 489-491 CASTLE PEAK ROAD, LAI CHI KOK, KOWLOON HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as :

Plastic Toy (Surface swab) - washed with Ozonated water produced by BIOSURE WDS ozonated water system

SGS Job No. :

Date of Sample Received : 05 Mar 2020

Conditions of Sample Received : Sample was in unopened original package and was delivered under ambier temperature

Sample Quantity Received : 1

Testing Period : 05 Mar 2020 - 10 Mar 2020

Test Requested/Test Method : - Antimicrobial Preservatives - Effectivness was conducted with reference to The United States Pharmacopoeia, The National Formulary, USP29, NF24, 2006, General Chapter 51

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS Hong Kong Limited.Ng Chung Man
Senior Microbiologist

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Test Results :

Sample Description : Plastic Toy (Surface swab) - washed with Ozonated water produced by BIOSURE
WDS ozonated water system

Antimicrobial Preservative - Effectiveness

<u>Organisms</u>	<u>Inoculum</u>	<u>5 Seconds</u>	<u>20 Seconds</u>	<u>60 Seconds</u>
Total Plate Count	4.2 X 10 ⁶ cfu/ml	<1 cfu/ml	<1 cfu/ml	<1 cfu/ml
% Reduction		>99.99 %	>99.99 %	>99.99 %
Log Reduction		>3	>3	>3

Note :

< = Less than

> = Greater than

cfu = colony forming unit

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Ice cubes tested for Salmonella and Enterobacteria

BES Group/Biotek Environmental Science Ltd.
5F,98 Xingde Rd. Sanchung Dist., New Taipei, Taiwan

Report No. : AFA23201851M01

Date : 2023/02/15



Product Name : Ice cubes(After CIS Installation)
Sample Packaging : Please refer to the photos for sample shown at the page of this report
Sample Condition/Amount : Frozen/1 piece
Item No. : BioSure CIS Series
Lot. No. : —
Applicant : BES Group/Biotek Environmental Science Ltd.
**Applicant address/
telephone number/
contact person :** 5F,98 Xingde Rd. Sanchung Dist., New Taipei City, 24158 Taiwan/02-85111048/Han Huang
Manufacturer/Vendor : BES Group
Manufacture Date : —
Expiry Date : —

The above sample information is provided and confirmed by the applicant.

Sample Received : 2023/02/06
Testing Date : 2023/02/07
Test Results: -Please refer to next page(s)-


Chengchia Tsai, Manager
Signed for and on behalf of
SGS Taiwan Ltd.



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BES Group/Biotek Environmental Science Ltd.
5F,98 Xingde Rd. Sanchung Dist., New Taipei , Taiwan

Report No. : AFA23201851M01

Date : 2023/02/15



Test Item	Test Method	Results	LOQ/LOD (Note 3.)	Unit
★ <i>Salmonella</i>	MOHW Food No. 1021951187 amended on 2013/12/23. Methods of Test for Food Microorganisms-Test of Salmonella.(MOHWM0025.01)	Negative	---	---
★ Enterobacteriaceae	MOHW Food No. 1101900975 promulgated on 2021/06/02. Methods of Test for Food Microorganisms-Test of Enterobacteriaceae.(MOHWM0028.00)	Negative	10	CFU/mL

Note:

1. The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.
2. This testing report contains 4 pages and it's invalid when they are separated.
3. If the testing item belongs to quantitative analysis then this column describes Limit of Quantification(LOQ); If the testing item belongs to qualitative analysis then this column describes Limit of Detection(LOD).
4. Result reported as "N.D." or "Negative" denotes value lower than LOQ/LOD.
5. All items in this testing report is based on the request from client and we are responsible for that.
6. The testing method has been accredited by MOHW, which is marked with ★.
7. The report, AFA23201851M01, was reissued on 2023/02/21.

- END -

BES Group/Biotek Environmental Science Ltd.
5F,98 Xingde Rd. Sanchung Dist., New Taipei , Taiwan

Report No. : AFA23201851M01

Date : 2023/02/15



Sample Photo

AFA23201851



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The information requested from client is shown as below:

AFA23201851M01

Test Item	Test Method	LOQ/LOD
★ <i>Salmonella</i>	MOHW Food No. 1021951187 amended on 2013/12/23. Methods of Test for Food Microorganisms-Test of Salmonella.(MOHWM0025.01)	Please refer to the result table above
★ Enterobacteriaceae	MOHW Food No. 1101900975 promulgated on 2021/06/02. Methods of Test for Food Microorganisms-Test of Enterobacteriaceae.(MOHWM0028.00)	Please refer to the result table above

The testing method has been accredited by MOHW, which is marked with ★.

The externally provided testing method has been accredited by MOHW, which is marked with ®.

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Ice Cubes tested for Microorganisms

BES Group/Biotek Environmental Science Ltd.
5F, 98 Xingde Rd., Sanchung Dist., New Taipei City, Taiwan

Report No. : AFA23201852M01

Date : 2023/02/15



Product Name : Ice cubes(After CIS installation)

Sample Packaging : Please refer to the photos for sample shown at the page of this report

Sample Condition/Amount : Frozen/1 piece

Item No. : BioSure CIS Series

Lot. No. : —

Applicant : BES Group/Biotek Environmental Science Ltd.

**Applicant address/
telephone number/
contact person :** 5F, 98 Xingde Rd., Sanchung Dist., New Taipei City, 24158 Taiwan/02-85111048/Han Huang

Manufacturer/Vendor : BES Group

Manufacture Date : —

Expiry Date : —

The above sample information is provided and confirmed by the applicant.

Sample Received : 2023/02/06

Testing Date : 2023/02/07

Test Results: -Please refer to next page(s)-

Kary Chou

Kary Chou / Asst. Supervisor
Signed for and on behalf of
SGS Taiwan Ltd.

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BES Group/Biotek Environmental Science Ltd.
5F, 98 Xingde Rd., Sanchung Dist., New Taipei City, Taiwan

Report No. : AFA23201852M01
Date : 2023/02/15



Test Item	Test Method	Results	LOQ/LOD (Note 3.)	Unit
★ Aerobic Plate Count	MOHW Food No. 1021950329 amended on 2013/09/06. Methods of Test for Food Microorganisms-Test of Standard Plate Count (Aerobic Plate Count).(MOHWM0014.01)	Negative*	10	CFU/mL

Note:

- The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.
- This testing report contains 4 pages and it's invalid when they are separated.
- If the testing item belongs to quantitative analysis then this column describes Limit of Quantification(LOQ); If the testing item belongs to qualitative analysis then this column describes Limit of Detection(LOD).
- Result reported as "N.D." or "Negative" denotes value lower than LOQ/LOD.
- All items in this testing report is based on the request from client and we are responsible for that.
- The testing method has been accredited by MOHW, which is marked with ★.
- It's an estimate count when the (*) is shown along with aerobic plate count or/and mold and yeast count.
- The report, AFA23201852M01, was reissued on 2023/02/20.

- END -

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BES Group/Biotek Environmental Science Ltd.
5F, 98 Xingde Rd., Sanchung Dist., New Taipei City, Taiwan

Report No. : AFA23201852M01
Date : 2023/02/15



Sample Photo

AFA23201852



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The information requested from client is shown as below:

AFA23201852M01

Test Item	Test Method	LOQ/LOD
★ Aerobic Plate Count	MOHW Food No. 1021950329 amended on 2013/09/06. Methods of Test for Food Microorganisms-Test of Standard Plate Count (Aerobic Plate Count).(MOHWM0014.01)	Please refer to the result table above

The testing method has been accredited by MOHW, which is marked with ★.

The externally provided testing method has been accredited by MOHW, which is marked with ⊙.

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Ritz-Carlton Hong Kong – Test of WDS Ice for E.coli, Coliforms

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: THE RITZ-CARLTON HONG KONG	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 3
Contact	: --	Contact	: Richard Fung	Work Order	: HK1927224
Address	: THE RITZ-CARLTON HONG KONG, INTERNATION COMMERCE CENTRE, 1 AUSTIN ROAD WEST, KOWLOON HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: ---	E-mail	: richard.fung@alsglobal.com		
Telephone	: ---	Telephone	: +852 2610 1044		
Facsimile	: ---	Facsimile	: +852 2610 2021		
Project	: ---			Date Samples Received	: 25-Jun-2019
Order number	: ---	Quote number	: HKF/8419/19	Issue Date	: 02-Jul-2019
C-O-C number	: ---			No. of samples received	: 1
Site	: ---			No. of samples analysed	: 1

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This document has been signed by those names that appear on this report and are the authorised signatories.

<u>Signatories</u>	<u>Position</u>	<u>Authorised results for</u>
 Ng Sin Kou, May	Assistant Laboratory Manager	Microbiology_ENV

ALS Technichem (HK) Pty Ltd
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Page Number : 2 of 3
Client : THE RITZ-CARLTON HONG KONG
Work Order : HK1927224



General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 25-Jun-2019 to 28-Jun-2019.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK1927224

Sample(s) were received in frozen condition.

Sample(s) analysed and reported on an as received basis.

Sample(s) were arrived in the laboratory at 15:45. Microbiological sample(s), in sterile plastic bag, were received in frozen condition.

NOT DETECTED denotes result(s) is (are) less than the Limit of Report (LOR).

Test method - EM001 - Heterotrophic plate count is determined according to APHA 22e 9215A & B.

Test method - EM002 - E. coli is determined according to DoE (1983) The Bacteriological Examination of Drink Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 and urease test (Appl. Environ. Microbiol. 29, p826-833)

Test method - EM003 - Total coliform is determined according to DoE (1983) The Bacteriological Examination of Drink Water Supplies, 1982 Sections 7.8 and 7.9 (Membrane Filtration Procedure: Section 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3)

FEHD Acceptable Limit (Loose Ice) - Aerobic Plate Count: <1000 cfu/ml

FEHD Acceptable Limit (Loose Ice) - E. coli Count: 0 cfu/100ml

FEHD Acceptable Limit (Loose Ice) - Total coliforms: < 100 cfu/100ml

Conclusion: The submitted ice is acceptable for consumption according to the Microbiological Guidelines for Food (For ready-to-eat food in general and specific food items), issued by Centre for Food Safety, Food & Environmental Hygiene Department (FEHD), August 2014 (revised).

RESULTS: NOT DETECTED



Page Number : 3 of 3
 Client : THE RITZ-CARLTON HONG KONG
 Work Order : HK1927224

Analytical Results

Sub-Matrix: ICE

Compound	CAS Number	LOR	Unit	Client sample ID			
				Client sampling date / time			
				102/F Ice Cube (after biosure ozone sanitation)			
				25-Jun-2019			
				HK1927224-001			
EM: Microbiological Testing							
EM001: Heterotrophic Plate Count		1	CFU/mL	12			
EM002: E. coli		1	CFU/100mL	NOT DETECTED			
EM003: Total Coliforms		1	CFU/100mL	NOT DETECTED			