

ALS Technichem (HK) Pty Ltd

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CERTIFICATE OF ANALYSIS

CONTACT: KENNETH CHEUNG
CLIENT: OPTIWAY (ASIA) CO. LTD

ADDRESS: FLAT B, 14/F,

ADDRESS: SHUI WING INDUSTRIAL BUILDING,

12-22 TAI YUEN STREET KWAI CHUNG.

N.T., HONG KONG

WORK ORDER:

HK1775663

SUB-BATCH:

3 HONG KONG

DATE RECEIVED:

LABORATORY:

27-Oct-2017

DATE OF ISSUE: SAMPLE TYPE:

27-Nov-2017

NO. OF SAMPLES:

LIQUID

NO. OF SAMPLES:

LES: 1

COMMENTS

Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

Testing period: 27-Oct-2017 to 13-Nov-2017

Method Reference:

BS EN 1276:2009 Incorporating Corrigendum August 2010, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas - Test method and requirements (phase 2, step 1)

Appearance of the product: Transparent and colorless liquid Active substance(s) and their concentration(s): Unknown

Product diluent recommended by the manufacturer for use: Not applicable

Method: Membrane filtration

Conclusion:

The bactericidal activity of the submitted sample at original concentration showed less than 5 lg reduction (lg R) on *Escherichia coli O157* under dirty condition which standing at 20 °C with 5 minutes contact time, according to the BS EN 1276 standard.

SAMPLE DETAILS

ALS Lab ID	Product Name		
HK1775663-001	NICE - CRYSTAL SANITIZER コレスゴ!		

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.



Mr Luk Hon Yin, Henry Microbiologist - Microbiology

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CERTIFICATE OF ANALYSIS



WORK ORDER: HK1775663

SUB-BATCH:

CLIENT: OPTIWAY (ASIA) CO. LTD

DATE OF ISSUE: 27-Nov-2017

Results:

Escherichia coli O157 ATCC 700728			Test Organism			
			33	(Nv ₀)	Validation suspension	
			39	(A)	Validation Experimenta suspension I conditions	Validati
		35	(B)	C Fil	Validation test	
				(C)	Method validation	
			40 3.0E+08			
			8.48		Test suspension	
			3.0E+07	N ₀ = N/10		pension
			7.48	Ig N _o		
R%	lg R	lg Na	Na			
99.99%	7.48	0.00	<u>^</u>	5	contact time (min)	Result

 $Nv_0 = number of ctu/mL in the mixtures"A","B" and "C"at the beginning of the contact time (time 0)$

A = number of cfu/mL of the experimental conditions control

B = number of cfu/mL of the filtration control control

C = number of cfu/mL of the method validation

N= number of cfu/mL in the test suspension $N_0=$ number of cfu/mL in the test mixture at the beginning of the contact time (time 0)

Na = number of cfu/ml in the test mixture at the end of the contact time and before membrane filtration

lg R = reduction expressed in logarithm

R% = reduction expressed in percentage

CERTIFICATE OF ANALYSIS

WORK ORDER: HK1775663

SUB-BATCH: 3
CLIENT: 01

ENT: OPTIWAY (ASIA) CO. LTD

DATE OF ISSUE: 27-Nov-2017

Experimental conditions:

Product diluent used during the test: sterile tryptone sodium chloride solution

Contact time : $t = 5 \text{ mins} \pm 10 \text{ seconds}$

Test temperature: 20°C±1°C

Interfering substance: 3g/I bovine albumin (dirty condition)

Temperature of incubation for Escherichia coli 0157: 36°C+1°C

Basic limits:

For each organism check that:

a) N is between 1.5 \times 10 8 and 5.0 \times 10 8 , N $_0$ is between 1.5 \times 10 7 and 5.0 \times 10 7

b) N_{V0} is between 30 and 160

c) A, B, C are equal to or greater than 0.5 \times $N_{\rm V0}$

Remarks regarding the results:

All controls and validation were within the basic limits.

No precipitate during the test procedure (test mixtures were homogeneous).

