

Company Name: HealthGuard Hygiene Ltd

Contact Name: Anca Palade

Contact Email: info@healthguardhygiene.com

Purchase Order No: N/A

Report Date: 27/06/2020

Melbec Ref Number: 15729

No. of Samples: 1

Name of Test Product: 70% Alcohol Hand Sanitiser

Batch Number: N/A

Sample Details:

Manufacture / Supplier:.....	HealthGuard Hygiene Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear Gel
Appearance of the product (after dilution):.....	Clear Gel
Appearance of product with interfering substance and test organism:	Opaque thin Gel
Active substance and concentration:.....	Alcohol
Product dilutions/concentrations:.....	Ready to Use (RTU)
Diluent used to dilute product:.....	N/A
Incubation temperature:	36 degrees

The test product was in satisfactory condition for testing when received.

Date product received: 18/03/20	Test Date: 20/03/20
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Experimental Conditions:

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	18 to 25 °C
Contact time:	1 Minutes
Test organisms:	Pseudomonas aeruginosa ATCC 15442
	Escherichia coli K12 NCTC 10538
	Staphylococcus aureus ATCC 6538
	Enterococcus hirae ATCC 10541

Requirements of the Standard:

The test product shall demonstrate at least a 5 decimal logarithm (lg) reduction when tested in accordance with this standard under simulated clean or dirty conditions.

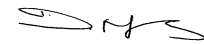
Conclusion:

For the product 70% Alcohol Hand Sanitiser, [N/A] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met.

Testing carried out by:

Name: Danika Weatherburn
Position: Laboratory Manager

Report authorised by:



Name: Dawn Mellors
Position: Technical Director
Date: 27/06/2020

Test Results:**Neutralisation Method Used:**

Dilution neutralisation by pour plate

Neutraliser used N1

***Pseudomonas aeruginosa* ATCC
15442**

Validation and controls									Melbec Ref No	15729	
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	83	$\bar{X} =$	Vc 1	88	$\bar{X} =$	Vc 1	71	$\bar{X} =$	Vc 1	79	$\bar{X} =$
Vc 2	68	75.5	Vc 2	74	81	Vc 2	74	72.5	Vc 2	50	64.5
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ Yes			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ Yes			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ Yes			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_{wm} 2.73E+08 ; $\lg N =$ 8.44
	10^{-6}	273	257	$N_0 = N/10$; $\lg N_0 =$ 7.44
	10^{-7}	43	27	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ 7.57

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$ 7.44	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.29	1 Minutes	Pass

**Escherichia coli K12 NCTC
10538**

Validation and controls									Melbec Ref No	15729	
Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	87	$\bar{X} =$	Vc 1	88	$\bar{X} =$	Vc 1	100	$\bar{X} =$	Vc 1	89	$\bar{X} =$
Vc 2	80	83.5	Vc 2	69	78.5	Vc 2	88	94	Vc 2	82	85.5
30 ≤ \bar{X} of N_{v0} ≤ 160? Yes			\bar{X} of A is ≥ 0.5 x \bar{X} of N_{v0} ? Yes			\bar{X} of B is ≥ 0.5 x \bar{X} of N_{v0} ? Yes			\bar{X} of C is ≥ 0.5 x \bar{X} of N_{v0} ? Yes		

Test suspension and test

	N	Vc 1	Vc 2	X_{wm}	$3.09E+08$	$lg N =$	8.49
Test suspension (N and N_0):	10^{-6}	315	299	$N_0 = N/10$		$lg N_0 =$	7.49
	10^{-7}	36	30	$7.17 \leq lg N_0 \leq 7.70?$		Yes	
				\bar{X} quotient = >5 and <15?			9.30

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$lg Na$	$lg R$ $N_0 =$	7.49	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.34	1 Minutes	Pass

**Staphylococcus aureus ATCC
6538**

Validation and controls									Melbec Ref No	15729	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	108	$\bar{X} =$	Vc 1	123	$\bar{X} =$	Vc 1	128	$\bar{X} =$	Vc 1	112	$\bar{X} =$
Vc 2	99	103.5	Vc 2	110	116.5	Vc 2	142	135	Vc 2	96	104
30 ≤ \bar{X} of N_{v_0} ≤ 160? Yes			\bar{X} of A is ≥ 0.5 x \bar{X} of N_{v_0} ? Yes			\bar{X} of B is ≥ 0.5 x \bar{X} of N_{v_0} ? Yes			\bar{X} of C is ≥ 0.5 x \bar{X} of N_{v_0} ? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_m 4.80E+08 ; $\lg N =$ 8.68
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.68
	10^{-7}	50	46	7.17 ≤ $\lg N_0$ ≤ 7.70? Yes \bar{X} quotient = >5 and <15? N/A

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$ 7.68	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.54	1 Minutes	Pass

Enterococcus hirae ATCC 10541

Validation and controls									Melbec Ref No	15729	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	87	$\bar{X} =$	Vc 1	85	$\bar{X} =$	Vc 1	93	$\bar{X} =$	Vc 1	105	$\bar{X} =$
Vc 2	81	84	Vc 2	68	76.5	Vc 2	87	90	Vc 2	88	96.5
30 ≤ \bar{X} of N_{v_0} ≤ 160? Yes			\bar{X} of A is ≥ 0.5 x \bar{X} of N_{v_0} ? Yes			\bar{X} of B is ≥ 0.5 x \bar{X} of N_{v_0} ? Yes			\bar{X} of C is ≥ 0.5 x \bar{X} of N_{v_0} ? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_m 4.35E+08 ; lg N = 8.64
	10^{-6}	>330	>330	$N_0 = N/10$; lg $N_0 =$ 7.64
	10^{-7}	46	41	7.17 ≤ lg N_0 ≤ 7.70? Yes \bar{X} quotient = >5 and <15? N/A

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	lg N_a	lgR $N_0 =$	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.64 >5.49	1 Minutes	Pass