

Company Name: Overall Hygiene Ltd

Contact Name: David Bowker

Contact Email: info@overallhygiene.co.uk

Purchase Order No: N/A

Report Date: 16/10/2020

Melbec Ref Number: 20637

No. of Samples: 1

Name of Test Product: Overall Hygiene 80% Hand Rub

Batch Number: 00001

Sample Details:

Manufacture / Supplier:.....	Overall Hygiene Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear colourless liquid
Appearance of the product (after dilution):.....	N/A
Appearance of product with interfering substance and test organism:	Clear colourless liquid
Active substance and concentration:.....	Ethanol
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: 22/09/20	Test Date: 30/08/20
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Experimental Conditions:

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	18 to 25 °C
Contact time:	30 Seconds
Test organisms:	Pseudomonas aeruginosa ATCC 15442
	Staphylococcus aureus ATCC 6538
	Escherichia coli K12 NCTC 10538
	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.

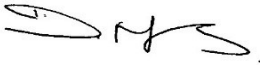
Conclusion:

For the product Overall Hygiene 80% Hand Rub, [00001] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met for clean conditions and a contact time of 30 seconds.

Testing carried out by:

Name: Yvie Newall
Position: Senior Microbiologist

Report authorised by:



Name: Dawn Mellors
Position: Technical Director
Date: 16/10/2020

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used N1

***Pseudomonas aeruginosa* ATCC
15442**

Validation and controls									Melbec Ref No	20637	
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	79	$\bar{X} =$	Vc 1	87	$\bar{X} =$	Vc 1	74	$\bar{X} =$	Vc 1	55	$\bar{X} =$
Vc 2	70	74.5	Vc 2	68	77.5	Vc 2	54	64	Vc 2	37	46
30 ≤ \bar{X} of Nv_0 ≤ 160? Yes			\bar{X} of A is ≥ 0.5 x \bar{X} of Nv_0 ? Yes			\bar{X} of B is ≥ 0.5 x \bar{X} of Nv_0 ? Yes			\bar{X} of C is ≥ 0.5 x \bar{X} of Nv_0 ? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_{wm} 2.52E+08 ; $\lg N =$ 8.40
	10^{-6}	248	247	$N_0 = N/10$; $\lg N_0 =$ 7.40
	10^{-7}	31	29	7.17 ≤ $\lg N_0$ ≤ 7.70? Yes \bar{X} quotient = >5 and <15? 8.25

Conc. of the product (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$ 7.40	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.26	30 Seconds	Pass

**Staphylococcus aureus ATCC
6538**

Validation and controls									Melbec Ref No	20637	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	63	$\bar{X} =$	Vc 1	66	$\bar{X} =$	Vc 1	72	$\bar{X} =$	Vc 1	65	$\bar{X} =$
Vc 2	57	60	Vc 2	55	60.5	Vc 2	66	69	Vc 2	53	59
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

	N	Vc 1	Vc 2	X_{wm}	2.36E+08	; lg N =	8.37
Test suspension (N and N_0):	10^{-6}	245	213	$N_0 = N/10$; lg $N_0 =$	7.37
	10^{-7}	36	26	7.17 ≤ lg N_0 ≤ 7.70? Yes			
					\bar{X} quotient = >5 and <15? 7.39		

Conc. of the product (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	lg N_a	lgR $N_0 =$	7.37	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.23	30 Seconds	Pass

**Escherichia coli K12 NCTC
10538**

Validation and controls									Melbec Ref No	20637	
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	70	$\bar{X} =$	Vc 1	75	$\bar{X} =$
Vc 2	75	81	Vc 2	84	84.5	Vc 2	63	66.5	Vc 2	62	68.5
$30 \leq \bar{X} \text{ of } N_{v_0} \leq 160?$ Yes			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ Yes			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ Yes			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	$X_{wm} = 2.95E+08$; $\lg N = 8.47$
	10^{-6}	>330	288	$N_0 = N/10$; $\lg N_0 = 7.47$
	10^{-7}	40	26	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ 8.73

Conc. of the product (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.47 >5.32	30 Seconds	Pass

Enterococcus hirae ATCC 10541

Validation and controls									Melbec Ref No	20637	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	78	$\bar{X} =$	Vc 1	78	$\bar{X} =$	Vc 1	70	$\bar{X} =$	Vc 1	72	$\bar{X} =$
Vc 2	62	70	Vc 2	73	75.5	Vc 2	61	65.5	Vc 2	66	69
$30 \leq \bar{X} \text{ of } N_{v_0} \leq 160?$ Yes			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ Yes			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ Yes			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	$X_{wm} = 2.65E+08$; $\lg N = 8.42$
	10^{-6}	278	258	$N_0 = N/10$; $\lg N_0 = 7.42$
	10^{-7}	26	20	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ 11.65

Conc. of the product (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.42 >5.28	30 Seconds	Pass