

Company Name: Clear Water Hygiene Ltd

Contact Name: Andrew Montague

Contact Email: andrew@clearwaterhygiene.com

Purchase Order No: Giles - Verbal

Report Date: 07/07/2020

Melbec Ref Number: 18138

No. of Samples: 1

Name of Test Product: Quin Global 80% Hand Rub

Batch Number: 220620

Sample Details:

Manufacture / Supplier:..... Clear Water Hygiene Ltd
Product storage conditions:..... Ambient
Appearance of the product (as supplied):..... Clear
Appearance of the product (after dilution):..... N/A
Appearance of product with interfering substance and test organism: Clear 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: 22/06/20 Test Date: 23/06/20

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.

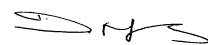
Conclusion:

For the product Quin Global 80% Hand Rub, [220620] 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: 07/07/2020

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used N1

***Pseudomonas aeruginosa* ATCC
15442**

Validation and controls									Melbec Ref No	18138	
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	84	$\bar{X} =$	Vc 1	70	$\bar{X} =$	Vc 1	73	$\bar{X} =$	Vc 1	70	$\bar{X} =$
Vc 2	80	82	Vc 2	67	68.5	Vc 2	93	83	Vc 2	50	60
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ 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_m 2.80E+08 ; $\lg N =$ 8.45
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.45
	10^{-7}	28	28	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ N/A

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$ 7.45	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.30	30 Seconds	Pass

**Staphylococcus aureus ATCC
6538**

Validation and controls									Melbec Ref No	18138	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	107	$\bar{X} =$	Vc 1	98	$\bar{X} =$	Vc 1	114	$\bar{X} =$	Vc 1	81	$\bar{X} =$
Vc 2	80	93.5	Vc 2	86	92	Vc 2	100	107	Vc 2	62	71.5
$30 \leq \bar{X} \text{ of } N_{v_0} \leq 160?$ 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

	N	Vc 1	Vc 2	X m	4.00E+08	; lg N =	8.60
Test suspension (N and N_0):	10^{-6}	>330	>330	$N_0 = N/10$; lg $N_0 =$	7.60
	10^{-7}	47	33	$7.17 \leq \lg N_0 \leq 7.70?$		Yes	
				$\bar{X} \text{ quotient} = >5 \text{ and } <15?$			N/A

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	lgNa	IgR $N_0 =$	7.60	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.46	30 Seconds	Pass

Escherichia coli K12 NCTC
10538

Validation and controls									Melbec Ref No	18138	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	71	$\bar{X} =$	Vc 1	73	$\bar{X} =$	Vc 1	72	$\bar{X} =$	Vc 1	63	$\bar{X} =$
Vc 2	58	64.5	Vc 2	66	69.5	Vc 2	69	70.5	Vc 2	56	59.5
$30 \leq \bar{X} \text{ of } N_{v_0} \leq 160?$ 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	$X_{wm} = 2.41E+08$; $\lg N = 8.38$
	10^{-6}	250	234	$N_0 = N/10$; $\lg N_0 = 7.38$
	10^{-7}	26	20	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ 10.52

Conc. of the active (%)	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	7.38 >5.24	30 Seconds	Pass

Enterococcus hirae ATCC 10541

Validation and controls									Melbec Ref No	18138	
Validation suspension (N_{v_0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	58	$\bar{X} =$	Vc 1	69	$\bar{X} =$	Vc 1	70	$\bar{X} =$	Vc 1	46	$\bar{X} =$
Vc 2	56	57	Vc 2	61	65	Vc 2	66	68	Vc 2	35	40.5
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_{wm} 2.83E+08 ; $\lg N =$ 8.45
	10^{-6}	248	224	$N_0 = N/10$; $\lg N_0 =$ 7.45
	10^{-7}	80	71	7.17 ≤ $\lg N_0$ ≤ 7.70? Yes \bar{X} quotient = >5 and <15? 3.13

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$ 7.45	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.31	30 Seconds	Pass