

Company Name: Chemiphase Ltd

Contact Name: Clive Wiggins

Contact Email: clive@chemiphase.co.uk

Purchase Order No: 6555

Report Date: 30/06/2020

**Melbec Ref Number:** 17504

**No. of Samples:** 1

**Name of Test Product:** Solo Hand Gel

**Batch Number:** N/A

**Sample Details:**

Manufacture / Supplier:.....	Chemiphase Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear gel
Appearance of the product (after dilution):.....	N/A
Appearance of product with interfering substance and test organism:	Cloudy liquid
Active substance and concentration:.....	Ethanol Denatured
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:      20/05/20	Test Date:                      05/06/20
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**Experimental Conditions:**

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	18 to 25 °C
Contact time:	60 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.

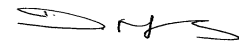
**Conclusion:**

For the product Solo Hand Gel, [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: 30/06/2020



***Pseudomonas aeruginosa* ATCC  
15442**

Validation and controls									Melbec Ref No	17504	
Validation suspension ( $Nv_0$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	48	$\bar{X} =$	Vc 1	39	$\bar{X} =$	Vc 1	54	$\bar{X} =$	Vc 1	55	$\bar{X} =$
Vc 2	31	39.5	Vc 2	37	38	Vc 2	44	49	Vc 2	44	49.5
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ <b>Yes</b>			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ <b>Yes</b>			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ <b>Yes</b>			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ <b>Yes</b>		

**Test suspension and test**

<b>Test suspension (<math>N</math> and <math>N_0</math>):</b>	$N$	Vc 1	Vc 2	$X_m$ 3.65E+08 ; $\lg N =$ 8.56
	$10^{-6}$	>330	>330	$N_0 = N/10$ ; $\lg N_0 =$ 7.56
	$10^{-7}$	37	36	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ N/A

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$ 7.56	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.42	60 Seconds	<b>Pass</b>

**Staphylococcus aureus ATCC  
6538**

Validation and controls									Melbec Ref No	17504	
Validation suspension ( $N_{v_0}$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	65	$\bar{X} =$	Vc 1	73	$\bar{X} =$	Vc 1	60	$\bar{X} =$	Vc 1	75	$\bar{X} =$
Vc 2	56	60.5	Vc 2	63	68	Vc 2	73	66.5	Vc 2	71	73
$30 \leq \bar{X} \text{ of } N_{v_0} \leq 160?$ <b>Yes</b>			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ <b>Yes</b>			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ <b>Yes</b>			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } N_{v_0}?$ <b>Yes</b>		

**Test suspension and test**

	N	Vc 1	Vc 2	X m	3.00E+08	; lg N =	8.48
Test suspension (N and $N_0$ ):	$10^{-6}$	>330	>330	$N_0 = N/10$		; lg $N_0 =$	7.48
	$10^{-7}$	32	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	$N_a = \bar{X} \times 10$	lg $N_a$	lgR $N_0 =$	7.48	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.33	60 Seconds	Pass

**Escherichia coli K12 NCTC  
10538**

Validation and controls									Melbec Ref No	17504	
Validation suspension ( $Nv_0$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	51	$\bar{X} =$	Vc 1	5	$\bar{X} =$	Vc 1	50	$\bar{X} =$	Vc 1	43	$\bar{X} =$
Vc 2	48	49.5	Vc 2	60	32.5	Vc 2	47	48.5	Vc 2	58	50.5
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ <b>Yes</b>			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ <b>Yes</b>			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ <b>Yes</b>			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } Nv_0?$ <b>Yes</b>		

**Test suspension and test**

	N	Vc 1	Vc 2	X m	3.50E+08	; lg N =	8.54
Test suspension (N and $N_0$ ):	$10^{-6}$	>330	>330	$N_0 = N/10$		; lg $N_0 =$	7.54
	$10^{-7}$	37	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 $N_0 =$	7.54	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.40	60 Seconds	Pass

**Enterococcus hirae ATCC 10541**

Validation and controls									Melbec Ref No	17504	
Validation suspension ( $Nv_0$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	89	$\bar{X} =$	Vc 1	98	$\bar{X} =$	Vc 1	88	$\bar{X} =$	Vc 1	77	$\bar{X} =$
Vc 2	70	79.5	Vc 2	95	96.5	Vc 2	103	95.5	Vc 2	71	74
30 ≤ $\bar{X}$ of $Nv_0$ ≤ 160? <b>Yes</b>			$\bar{X}$ of A is ≥ 0.5 x $\bar{X}$ of $Nv_0$ ? <b>Yes</b>			$\bar{X}$ of B is ≥ 0.5 x $\bar{X}$ of $Nv_0$ ? <b>Yes</b>			$\bar{X}$ of C is ≥ 0.5 x $\bar{X}$ of $Nv_0$ ? <b>Yes</b>		

**Test suspension and test**

	N	Vc 1	Vc 2	X m	3.10E+08	; lg N =	8.49
Test suspension (N and $N_0$ ):	$10^{-6}$	>330	>330	$N_0 = N/10$		; lg $N_0 =$	7.49
	$10^{-7}$	33	29	7.17 ≤ lg $N_0$ ≤ 7.70?		Yes	
				$\bar{X}$ quotient = >5 and <15?			N/A

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	lgNa	IgR $N_0 =$	7.49	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.35	60 Seconds	Pass