

Company Name: Solupak Limited

Contact Name: Alex Thompson

Contact Email: Alex.thompson@solupak.com/ sales@solupak.com

Purchase Order No: POR004764

Report Date: 24/05/2021

**Melbec Ref Number:** 27813.1

**No. of Samples:** 1

**Name of Test Product:** Surface Sanitiser

**Batch Number:** V1230

**Sample Details:**

Manufacture / Supplier:.....	Solupak Limited
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clean colourless liquid
Appearance of the product (after dilution):.....	Clean colourless liquid
Appearance of product with interfering substance and test organism:	Slightly cloudy liquid
Active substance and concentration:.....	Lonzabac
Product dilution preparation.....	Volume/Volume
Product dilutions/concentrations:.....	Ready to Use (RTU), 50% and 1 %
Diluent used to dilute product:.....	Sterile Deionised Water
Incubation temperature: .....	35 °C to 38°C

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

Date product received:	17/05/21	Test Date:	20/05/21
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**Experimental Conditions:**

Interfering substance:	Bovine Albumin (dirty 3.0g/l)
Test temperature:	18 to 25 °C
Contact time:	30 seconds
Test organisms:	<i>Pseudomonas aeruginosa</i> ATCC 15442 <i>Staphylococcus aureus</i> ATCC 6538 <i>Escherichia coli</i> ATCC 10536 <i>Enterococcus hirae</i> ATCC 10541

**Deviations:**

EN1276 states incubation temperature of 36±1°C or 37±1°C. Melbec Microbiology Ltd method states 35°C - 38°C.

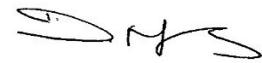
**Requirements of the Standard:**

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 Surface Sanitiser, [Batch code: V1230] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met in dirty conditions with a contact time of 30 seconds.

Report authorised by:



Name: Dawn Mellors  
Position: Technical Director  
Date: 24/05/2021

All samples are tested as received and the condition on receipt is deemed to be satisfactory for testing unless client is informed otherwise. If an unsatisfactory sample is received and tested on instruction from the client comments are included on the report detailing this information. Results given for this may be invalid. Results detailed above relate only to the samples tested. Sample description and batch references stated are as provided by the customer. This test report shall not be reproduced except in full without the approval of Melbec Microbiology Ltd.

**Test Results:**

**Neutralisation Method Used:**

Membrane filtration

Rinsing Liquid Used: N7

***Pseudomonas aeruginosa* ATCC  
15442**

Validation and controls									Melbec Ref No	27813.1	
Validation suspension ( $Nv_0$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C)		
Vc 1	78	$\bar{X} =$	Vc 1	89	$\bar{X} =$	Vc 1	83	$\bar{X} =$	Vc 1	68	$\bar{X} =$
Vc 2	59	68.5	Vc 2	78	83.5	Vc 2	69	76	Vc 2	53	60.5
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ <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**

<b>Test suspension (<math>N</math> and <math>N_0</math>):</b>	$N$	Vc 1	Vc 2	$X_m$ 3.90E+08 ; $\lg N =$ 8.59
	$10^{-6}$	>330	>330	$N_0 = N/10$ ; $\lg N_0 =$ 7.59
	$10^{-7}$	41	37	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ N/A

**Bactericidal activity results**

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$		Contact time	Result
					$N_0 =$	7.59		
RTU	<14	<14	1.40E+02	<2.15		>5.44	30 seconds	<b>Pass</b>
50.00	<14	<14	1.40E+02	<2.15		>5.44	30 seconds	<b>Pass</b>
1.00	>165	>165	1.65E+03	>3.22		<4.37	30 seconds	<b>Fail</b>

**Staphylococcus aureus ATCC  
6538**

Validation and controls									Melbec Ref No	27813.1	
Validation suspension ( $N_{v0}$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C)		
Vc 1	80	$\bar{X} =$	Vc 1	88	$\bar{X} =$	Vc 1	83	$\bar{X} =$	Vc 1	87	$\bar{X} =$
Vc 2	65	72.5	Vc 2	60	74	Vc 2	65	74	Vc 2	66	76.5
$30 \leq \bar{X} \text{ of } N_{v0} \leq 160?$ <b>Yes</b>			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ <b>Yes</b>			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ <b>Yes</b>			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ <b>Yes</b>		

**Test suspension**

Test suspension ( $N$ and $N_0$ ):	$N$	Vc 1	Vc 2	$X_m$	3.85E+08	$\lg N =$	8.59
	$10^{-6}$	>330	>330	$N_0 = N/10$		$\lg N_0 =$	7.59
	$10^{-7}$	46	31	$7.17 \leq \lg N_0 \leq 7.70?$		Yes	
				$\bar{X} \text{ quotient} = >5 \text{ and } <15?$			N/A

**Bactericidal activity results**

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$	7.59	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.44	30 seconds	Pass
50	<14	<14	1.40E+02	<2.15		>5.44	30 seconds	Pass
1.00	>165	>165	1.65E+03	>3.22		<4.37	30 seconds	Fail

**Escherichia coli ATCC 10536**

Validation and controls									Melbec Ref No	27813.1	
Validation suspension ( $N_{v0}$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C)		
Vc 1	108	$\bar{X} =$	Vc 1	121	$\bar{X} =$	Vc 1	104	$\bar{X} =$	Vc 1	102	$\bar{X} =$
Vc 2	104	106	Vc 2	98	109.5	Vc 2	98	101	Vc 2	93	97.5
$30 \leq \bar{X} \text{ of } N_{v0} \leq 160?$ Yes			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ Yes			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ Yes			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ Yes		

**Test suspension**

Test suspension ( $N$ and $N_0$ ):	$N$	Vc 1	Vc 2	$X_m$	5.00E+08	$\lg N =$	8.70
	$10^{-6}$	>330	>330	$N_0 = N/10$		$\lg N_0 =$	7.70
	$10^{-7}$	50	50	$7.17 \leq \lg N_0 \leq 7.70?$		Yes	
				$\bar{X} \text{ quotient} = >5 \text{ and } <15?$			N/A

**Bactericidal activity results**

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$	7.70	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.55	30 seconds	Pass
50.00	<14	<14	1.40E+02	<2.15		>5.55	30 seconds	Pass
1.00	>165	>165	1.65E+03	>3.22		<4.48	30 seconds	Fail

**Enterococcus hirae ATCC 10541**

Validation and controls									Melbec Ref No	27813.1	
Validation suspension ( $N_{v0}$ )			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C)		
Vc 1	102	$\bar{X} =$	Vc 1	94	$\bar{X} =$	Vc 1	102	$\bar{X} =$	Vc 1	86	$\bar{X} =$
Vc 2	90	96	Vc 2	89	91.5	Vc 2	94	98	Vc 2	85	85.5
$30 \leq \bar{X} \text{ of } N_{v0} \leq 160?$ <b>Yes</b>			$\bar{X} \text{ of A is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ <b>Yes</b>			$\bar{X} \text{ of B is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ <b>Yes</b>			$\bar{X} \text{ of C is } \geq 0.5 \times \bar{X} \text{ of } N_{v0}?$ <b>Yes</b>		

**Test suspension**

Test suspension ( $N$ and $N_0$ ):	$N$	Vc 1	Vc 2	$X_m$	4.95E+08	$\lg N =$	8.69
	$10^{-6}$	>330	>330	$N_0 = N/10$		$\lg N_0 =$	7.69
	$10^{-7}$	53	46	$7.17 \leq \lg N_0 \leq 7.70?$		Yes	
				$\bar{X} \text{ quotient} = >5 \text{ and } <15?$			N/A

**Bactericidal activity results**

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$	7.69	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.55	30 seconds	Pass
50.00	<14	<14	1.40E+02	<2.15		>5.55	30 seconds	Pass
1.00	>165	>330	1.65E+03	>3.22		<4.48	30 seconds	Fail