

Chemical Disinfectants and Antiseptics - Quantitative Suspension Test for the Evaluation of Bactericidal Activity in the Medical Area - Test Method and Requirements (phase 2, step 1)

Company Name: Modu Hygiene

Report Date: 05/07/2024

Melbec Ref Number: 75481

Name of Test Product: Modu Hygiene Antibacterial Foam Soap

**Batch Number:** F532

# Melbec

### Test Report for Handwash Products BS EN 13727:2012+A2:2015

**Sample Details:** 

Manufacture / Supplier: Modu Hygiene

Product storage conditions: ..... Ambient

for the test

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

Date product received: 18/06/24 Test date: 25/06/2024, 01/07/2024

**Experimental Conditions:** 

Interfering substance: Bovine Albumin (dirty 3.0g/l) and 3ml/l erythrocytes

Test temperature: 19 to 21 °C Contact time: 30 Seconds

Test organisms: Pseudomonas aeruginosa ATCC 15442

Staphylococcus aureus ATCC 6538 Escherichia coli K12 NCTC 10538 Enterococcus hirae ATCC 10541

**Deviations:** 

EN 13727 states incubation temperature of 36±1°C or 37±1°C. Melbec Microbiology Ltd method states 35°C - 38°C.

The test product was tested at one concentration only at the clients request hence the testing is based on the test method of EN 13727.

# Melbec

## Test Report for Handwash Products BS EN 13727:2012+A2:2015

### Requirements of the Standard:

The test product shall demonstrate at least a 3 decimal logarithm (lg) reduction when tested in accordance with this standard under simulated dirty conditions.

#### **Conclusion:**

For the product Modu Hygiene Antibacterial Foam Soap, [Batch code: F532] the log reduction requirements as specified in EN 13727:2012 (3 lg within the relevant contact time) were met in dirty conditions with a contact time of 30 Seconds.

Report authorised by:

Name: Liam Stephens
Position: Technical Manager

Date: 05/07/2024

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 a	and conti	rols					Melbec Re	f No	75481
Validation	n suspension 10 <sup>3</sup>	(NvB) x	Validat	ion suspen	sion ( <i>Nv</i> <sub>0</sub> )	Exper	rimental c control (	onditions ( <b>A</b> )	Neut	ralizer cont	rol ( <b>B</b> )	Meth	od validatio	on ( <b>C</b> )
Vc 1	N/A		Vc 1	100	<del>_</del> =	Vc 1	50	<del>_</del> <del>_</del> =	Vc 1	45	<del>_</del> =	Vc 1	58	<del>X</del> =
Vc 2	N/A	N/A	Vc 2	81	90.5	Vc 2	49	49.5	Vc 2	49	47	Vc 2	49	53.5
3.0x10 <sup>4</sup> ≤		1.6x10 <sup>5</sup> ?	30	$\leq \overline{X}$ of $Nv_0$ <b>Yes</b>	≤ 160?	X of A	is ≥ 0.5 x <b>Yes</b>	$\overline{X}$ of $Nv_0$ ?	X of B	is ≥ 0.5 x <i>X</i> <b>Yes</b>	of <i>Nv</i> <sub>0</sub> ?	X of C is	s ≥ 0.5 x <i>X</i> <b>Yes</b>	of <i>Nv</i> <sub>0</sub> ?

	N	<i>Vc</i> 1	Vc 2	X m	4.30E+08	; lg N =	8.63
Test suspension (N and N <sub>0</sub> ):	10 <sup>-6</sup>	>330	>330	$N_0 = N/10$	; lg $N_0$ =	7.63	
(/ <b>v</b> and / <b>v</b> <sub>0</sub> ).	10 <sup>-7</sup>	51	35	7.17 ≤ lg <i>N</i> (	<sub>0</sub> ≤ 7.70?	Yes	
				_ X quotie	nt = >5 and	<15?	N/A

Conc. of the active (%)	10 <sup>-X</sup>	<i>Vc</i> 1	Vc 2	Na = X	<b>lg</b> Na	Iį	gR	Contact	Result
conc. of the active (70)	10	VCI	VC 2	Nu – X	igiva	$N_0 =$	7.63	time	Nesuit
E00/	-1	<14	<14	1 405 102	<2.15		\E 10	30	Docc
50%	-2	-	-	1.40E+02	<2.15		>5.48	Seconds	Pass

### Staphylococcus aureus ATCC 6538

				,	Validation a	and cont	rols					Melbec Re	f No	75481
Validation	n suspension 10 <sup>3</sup>	(NvB) x	Validat	ion suspen	sion ( <i>Nv</i> <sub>0</sub> )	Expe	rimental c control (	onditions ( <b>A</b> )	Neut	ralizer cont	rol ( <b>B</b> )	Meth	od validatio	on ( <b>C</b> )
Vc 1	N/A	<del>X</del> =	Vc 1	41	<del>_</del> =	Vc 1	55	<del>_</del> =	Vc 1	48	<del>_</del> =	Vc 1	63	<del>_</del> =
Vc 2	N/A	N/A	Vc 2	40	40.5	Vc 2	55	55	Vc 2	42	45	Vc 2	56	59.5
3.0x10 <sup>4</sup> ≤		l.6x10 <sup>5</sup> ?	30	$30 \le X \text{ of } Nv_0 \le 160?$ Yes			is ≥ 0.5 x <b>Yes</b>	$\overline{X}$ of $Nv_0$ ?	$\overline{X}$ of B is $\geq 0.5 \times \overline{X}$ of Nv <sub>0</sub> ? Yes			X of C is	of <i>Nv</i> <sub>0</sub> ?	

	N	<i>Vc</i> 1	Vc 2	X wm	2.90E+08	; lg N =	8.46
Test suspension (N and N <sub>0</sub> ):	10 <sup>-6</sup>	311	270	$N_0 = N/10$	; lg N <sub>0</sub> =	7.46	
(/V and /V <sub>0</sub> /.	10 <sup>-7</sup>	30	28	7.17 ≤ lg∧	I <sub>0</sub> ≤ 7.70?	Yes	
				_ X quoti	ent = >5 and	l <15?	10.02

Conc. of the active (%)	10 <sup>-X</sup>	<i>Vc</i> 1	Vc 2	$Na = \overline{X}$	<b>lg</b> Na	<b>lg</b> <i>R</i> N <sub>0</sub> =	7.46	Contact time	Result
Γ00/	-1	<14	<14	1.40E+02	ري 15		<b>ΣΕ 21</b>	30	Doss
50%	-2	-	-	1.40E+02	<2.15		>5.31	Seconds	Pass

#### Escherichia coli K12 NCTC 10538

				,	Validation a	and cont	rols					Melbec Re	f No	75481
Validation	n suspension 10 <sup>3</sup>	(NvB) x	Validat	ion suspen	sion ( <i>Nv</i> <sub>0</sub> )	Expe	rimental c control (	onditions ( <b>A</b> )	Neut	ralizer cont	rol ( <b>B</b> )	Meth	Method validation	
Vc 1	N/A	<del>X</del> =	Vc 1	93	<del>_</del> =	Vc 1	111	<del>_</del> =	Vc 1	80	<del>_</del> =	Vc 1	73	<del>_</del> =
Vc 2	N/A	N/A	Vc 2	68	80.5	Vc 2	Vc 2 97 104		Vc 2	Vc 2 61 70.5		Vc 2	70	71.5
3.0x10 <sup>4</sup> ≤		l.6x10 <sup>5</sup> ?	$\frac{-5}{30} \le \frac{-7}{X} \text{ of } Nv_0 \le 160?$ Yes			X of A	is ≥ 0.5 x <b>Yes</b>	$\overline{X}$ of $Nv_0$ ?	$\overline{X}$ of B is $\geq 0.5 \times \overline{X}$ of $Nv_0$ ? Yes			X of C is	of <i>Nv</i> <sub>0</sub> ?	

	N	<i>Vc</i> 1	<i>Vc</i> 2	X m	3.80E+08	; lg N =	8.58
Test suspension (N and N <sub>0</sub> ):	10 <sup>-6</sup>	>330	>330	$N_0 = N/10$	; lg N <sub>0</sub> =	7.58	
(N and N <sub>0</sub> ).	10 <sup>-7</sup>	43	33	7.17 ≤ lg∧	I <sub>0</sub> ≤ 7.70?	Yes	
				_ X quoti	ent = >5 and	l <15?	N/A

Conc. of the active (%)	10 <sup>-X</sup>	<i>Vc</i> 1	Vc 2	Na = X	<b>lg</b> Na	<b>IgR</b> N <sub>0</sub> =	7.58	Contact time	Result
Γ00/	-1	<14	<14	1.40E+02	<2.15		<b>ΣΕ 42</b>	30	Doss
50%	-2	1	•	1.4UE+UZ	<2.15		>5.43	Seconds	Pass

#### Enterococcus hirae ATCC 10541

				,	Validation a	and conti	rols					Melbec Re	f No	75481
Validation	n suspension 10 <sup>3</sup>	(NvB) x	Validat	ion suspen	sion ( <i>Nv</i> <sub>0</sub> )	Exper	rimental c control (	onditions ( <b>A</b> )	Neut	ralizer cont	rol ( <b>B</b> )	Metho	od validatio	on ( <b>C</b> )
Vc 1	N/A	<del>X</del> =	Vc 1	88	<del>_</del> =	Vc 1	83	<del>_</del> <del>_</del> =	Vc 1	81	<del>_</del> =	Vc 1	70	<del>_</del> =
Vc 2	N/A	N/A	Vc 2	85	86.5	Vc 2	68	75.5	Vc 2	69	75	Vc 2	67	68.5
3.0x10 <sup>4</sup> ≤		l.6x10 <sup>5</sup> ?	30 :	$\leq \overline{X}$ of $Nv_0$ <b>Yes</b>	≤ 160?	X of A	is ≥ 0.5 x <b>Yes</b>	$\overline{X}$ of $Nv_0$ ?	X of B	is ≥ 0.5 x <i>X</i> <b>Yes</b>	of <i>Nv</i> <sub>0</sub> ?	X of C is	s ≥ 0.5 x X <b>Yes</b>	of Nv <sub>0</sub> ?

	N	<i>Vc</i> 1	Vc 2	X m	3.65E+08	; lg N =	8.56
Test suspension (N and N <sub>0</sub> ):	10 <sup>-6</sup>	>330	>330	$N_0 = N/10$	; lg N <sub>0</sub> =	7.56	
(/v and /v <sub>0</sub> ).	10 <sup>-7</sup>	38	35	7.17 ≤ lg <i>N</i>	I <sub>0</sub> ≤ 7.70?	Yes	
				_ X quoti	ent = >5 and	l <15?	N/A

Conc. of the active (%)	10 <sup>-X</sup>	<i>Vc</i> 1	Vc 2	Na = X	<b>lg</b> Na	<b>Ig</b> <i>R</i> N <sub>0</sub> =	7.56	Contact time	Result
50%	-1	<14	<14	1.40E+02	<2.15		>5.41	30	Pass
	-2	-	-					Seconds	