



Chemical disinfectants and antiseptics- Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas-Test method and requirements (phase 2, step1)

Company Name: Modu Hygiene

Report Date: 01/07/2024

Melbec Ref Number: 75480

Name of Test Product: Modu Hygiene Antibacterial Foam Soap

Batch Number: F532





Sample Detail	ls:
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Manufacture / Supplier: Cleenol Product storage conditions: Ambient

Active substance and concentration:

Product dilution preparation.

BKC/DDAC/PE

Volume/Volume

Product dilutions/concentrations: 50 %

deionised water for the test

Incubation temperature: $35\,^{\circ}\text{C}$ to $38\,^{\circ}\text{C}$

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

Date product received: 18/06/24 Test date: 26/06/24

Experimental Conditions:

Interfering substance: Bovine Albumin (dirty 3.0g/l)

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:

EN1276 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 EN1276.





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

Conclusion:

For the product Modu Hygiene Antibacterial Foam Soap, [Batch code: F532] the log reduction requirements as specified in EN 1276:2019 (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: 01/07/2024

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:	Τe	est	Re	su	lts:
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Neutralisation Method Used:

Membrane filtration

Rinsing Liquid Used: N7





Pseudomonas aeruginosa ATCC

154	42		Validation and controls							Melbec Ref No		
Validatio	on susper	nsion (<i>Nv</i> ₀)	Experimental conditions control (A)			Neutra	lizer contr	ol (B)	Meth Produ	50%		
Vc 1	107	X =	Vc 1	91	_ =	Vc 1	92	X =	Vc 1	82	X =	
Vc 2	102	104.5	Vc 2	89	90	Vc 2	77	84.5	Vc 2	80	81	
30 ≤	X of Nv o	₀ ≤ 160?	X of A is ≥	0.5 x X 0	of Nv ₀ ?	X of B is	≥ 0.5 x <i>X</i> (Yes	of <i>Nv</i> ₀ ?	X of C	of Nv ₀ ?		

	N	Vc 1	<i>Vc</i> 2	X m 3.30E+08 ; lg N = 8.52
Test suspension (N and N ₀):	10 ⁻⁶	>330	>330	$N_0 = N/10$; $\lg N_0 = 7.52$
(N and N ₀).	10 ⁻⁷	34	32	$7.17 \le gN_0 \le 7.70$? Yes
				\overline{X} quotient = >5 and <15? N/A

Conc. of the active (%)	10 ^{-X}	Vc 1	Vc 2	Na = X	lg Na	N ₀ =	R 7.52	Contact time	Result
50%	-1	<14	<14	1.40E+02	<2.15		>5.37	30 Seconds	Pass
30%	-2	-	-	1.406+02	\2.15		/3.37	30 Seconds	Pass





Staphylococcus aureus ATCC 6538

coccus u	uicus A	100 0558		V	alidation	and contro	ls		Melbec Re	75480		
Validatio	on susper	nsion (<i>Nv</i> ₀)	•	ental cond ntrol (A)	itions	Neutra	lizer contr	ol (B)	Meth Produ	n (C) 50%		
Vc 1	49	X =	Vc 1	Vc 1 67		Vc 1	46	x =	Vc 1	72	X =	
Vc 2	46	47.5	Vc 2	52	59.5	Vc 2	45	45.5	Vc 2	63	67.5	
30 ≤	X of Nv o	₀ ≤ 160?	X of A is ≥	0.5 x X 0	of Nv ₀ ?	X of B is	\overline{X} of B is $\geq 0.5 \times \overline{X}$ of Nv_0 ? Yes			X of C is ≥ 0.5 x X o Yes		

	N	Vc 1	Vc 2	X wm 1.68E+08 ; lg N = 8.22
Test suspension (N and N _o):	10 ⁻⁶	170	171	$N_0 = N/10$; $\lg N_0 = 7.22$
(N and N ₀).	10 ⁻⁷	<14	<14	$7.17 \le \lg N_0 \le 7.70$? Yes

	Conc. of the active (%)	10 ^{-X}	Vc 1	Vc 2	$Na = \overline{X}$	lg Na	lg <i>R</i> <i>N</i> ₀ =	7.22	Contact time	Result
Ī	50%	-1	<14	<14	1.40E+02	<2.15		>5.07	30 Seconds	Pass
ı	30%	-2	-	-	1.40E+02	<2.15		>5.07	30 Seconds	Pass





Escherichia coli K12 NCTC 10538

ma com r	NIZ NCI	C 10338		V	alidation	and contro	ls		Melbec Re	75480	
Validatio	on susper	nsion (<i>Nv</i> ₀)	•	ental cond ntrol (A)	itions	Neutra	lizer contr	ol (B)	Meth Produ	50%	
Vc 1	71	X =	Vc 1	76	X =	Vc 1	70	x =	Vc 1	72	X =
Vc 2	69	70	Vc 2	55	65.5	Vc 2	65	67.5	Vc 2	61	66.5
30 ≤	$30 \le X$ of $Nv_0 \le 160$? Yes			0.5 x X 0	of Nv ₀ ?	X of B is	≥ 0.5 x <i>X</i> (of Nv _o ?	X of C	of Nv _o ?	

	N	Vc 1	<i>Vc</i> 2	X m 3.60E+08 ; lg N = 8.56
Test suspension (N and N ₀):	10 ⁻⁶	>330	>330	$N_0 = N/10$; $\lg N_0 = 7.56$
(/* and /* ₀).	10 ⁻⁷	40	32	7.17 ≤ lgN ₀ ≤ 7.70? Yes
				\overline{X} quotient = >5 and <15? N/A

Conc. of the active (%)	10 ^{-X}	Vc 1	Vc 2	$Na = \overline{X}$	lg Na	IgR N ₀ =	7.56	Contact time	Result
50%	-1	<14	<14	1.40E+02	<2.15		>5.41	30 Seconds	Pass
50%	-2	-	-	1.40E+02	<2.15		<i>></i> 5.41	30 Seconds	Pass





Enterococcus hirae ATCC 10541

occus IIII	uc Arc	C 10341		V	alidation	and contro	ls		Melbec Re	75480		
Validatio	on susper	nsion (<i>Nv</i> ₀)	•	ental cond ntrol (A)	litions	Neutra	lizer contr	ol (<i>B</i>)	Meth Produ	n (C) 50%		
Vc 1	76	X =	Vc 1	70	_ =	Vc 1	60	X =	Vc 1	83	X =	
Vc 2	72	74	Vc 2	52	61	Vc 2	56	58	Vc 2	72	77.5	
30 ≤	$30 \le X$ of $Nv_0 \le 160$? Yes			X of A is $\geq 0.5 \times X$ of Nv_0 ? Yes			\overline{X} of B is $\geq 0.5 \times \overline{X}$ of Nv_0 ? Yes			X of C is $\ge 0.5 \times X$ of Yes		

	N	Vc 1	Vc 2	X wm 2.71E+08 ; lg N = 8.43
Test suspension (N and N ₀):	10 ⁻⁶	287	257	$N_0 = N/10$; $\lg N_0 = 7.43$
(Nº and Nº ₀).	10 ⁻⁷	31	22	7.17 ≤ lgN ₀ ≤ 7.70? Yes
	-			\overline{X} quotient = >5 and <15? 10.26

	Conc. of the active (%)	10 ^{-X}	Vc 1	Vc 2	Na = X	lg Na	IgR N ₀ =	7.43	Contact time	Result
	50%	-1	<14	<14	1.40E+02	<2.15		>5.28	30 Seconds	Pass
		-2	-	-						