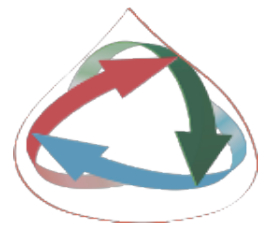


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Test Report for General Purpose Disinfectant Product
BS EN 1276:2019



Company Name: MEDISANITIZE
Company Address: B5 BUCKSHAW LINK, BUCKSHAW VILLAGE, CHORLEY.PR7 7EL
Product Name: MEDISANITIZE ALCOHOL WIPES (HAND WIPES / SURFACE WIPES)
Report Date: 05/09/2020
Ref Number: MEDAL1712B
No. of Samples: 1
Name of Test Product: EN1276 with addition of Listeria, Campylobacter, MRSE & Salmonella
Batch Number: 001

Sample Details:

Manufacture / Supplier: AL-Bioservices Limited
Product storage conditions: Ambient
Appearance of the product (as supplied): Clear liquid
Appearance of the product (after dilution): N/A
Appearance of product with interfering substance and test organism: Clear liquid
Active substance and concentration: N/A
Product dilutions/concentrations: Ready to Use (RTU)
Diluent used to dilute product: N/A

Incubation temperature: 36 degrees and Campylobacter incubated in a gas jar

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

Date product received: 16/07/20 Test Date: 05/08/20

Experimental Conditions:

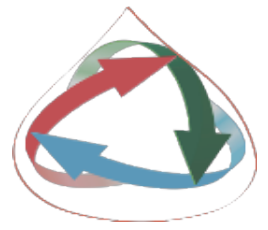
Interfering substance: Bovine Albumin (dirty 3.0g/l)
Test temperature: 18 to 25°C
Contact time: 5 Minutes
Test organisms: Pseudomonas aeruginosa ATCC 27956
Staphylococcus aureus ATCC 6538
Escherichia coli ATCC 10536
Enterococcus faecalis ATCC 10541
Salmonella Typhimurium NCTC 13665
Listeria monocytogenes serovar 1/2a NCTC 7973
Staphylococcus epidermidis MRSE NCTC 11964
Campylobacter jejuni subsp. doyleii NCTC 11951

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.

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Conclusion:

For the product Sample 1 EN1276 with addition of Listeria, Campylobacter, MRSE & Salmonella, [001] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met when tested in dirty conditions with a contact time of 5 minutes.

Test Results:

Neutralisation Method Used:

Membrane filtration

Rinsing Liquid Used : N7

Pseudomonas aeruginosa ATCC
15442

Validation and controls									Ref No	1712B	
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc1	69	$\bar{x} =$	Vc1	52	$\bar{x} =$	Vc1	43	$\bar{x} =$	Vc1	43	$\bar{x} =$
Vc2	64	66.5	Vc2	55	53.5	Vc2	47	45	Vc2	52	47.5
30 ≤ X of Nv ₀ ≤ 160? Yes			X of A is ≥ 0.5 X of Nv ₀ ? Yes			X of B is ≥ 0.5 X of Nv ₀ ? Yes			X of C is ≥ 0.5 X of Nv ₀ ? Yes		

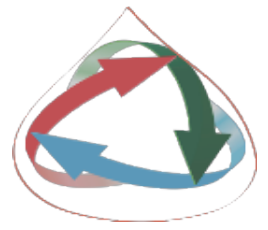
Test suspension and test (N and N ₀):	N	Vc1	Vc2	X _{wm} 2.70E+08 ; lgN = 8.43 N ₀ = N/10 ; lgN ₀ = 7.43 7.17 ≤ lgN ₀ ≤ 7.70? Yes \bar{x} quotient =>5 and <15? 7.87
	10 ⁻⁶	239	288	
	10 ⁻⁷	38	29	

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x10	lgNa	lgR N ₀ = 7.43	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.29	5 Minutes	Pass

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Campylobacter jejuni subsp.
Doyleii NCTC 11951

Validation and controls									Ref No	1712B	
Validation suspension (N _{v0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc:		
Vc1	91	$\bar{x} =$	Vc1	78	$\bar{x} =$	Vc1	84	$\bar{x} =$	Vc1	69	$\bar{x} =$
Vc2	87	89	Vc2	91	84.5	Vc2	89	86.5	Vc2	76	72.5
30 ≤ \bar{x} of N _{v0} ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of N _{v0} ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of N _{v0} ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of N _{v0} ? Yes		

Test suspension and test

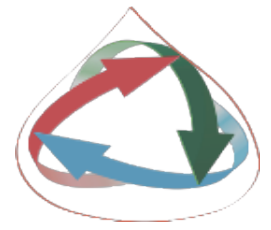
Test suspension (N and N ₀):	N	Vc1	Vc2	X _m	3.45E+08	lg N =	8.54
	10 ⁻⁶	330	330	N ₀ = N/10 ; lg N ₀ =		7.54	
	10 ⁻⁷	31	38	7.17 ≤ lg N ₀ ≤ 7.70?	Yes		
				\bar{x} quotient = >5 and <15?		9.57	

Conc. of the active (%)	Vc1	Vc2	N _a = \bar{x} x 10	lg N _a	lg R N ₀ =	Contact time	Result	
RTU	<14	<14	1.40E+02	<2.15	7.54	>5.39	5 Minutes	Pass

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Staphylococcus aureus ATCC
6538

Validation and controls										Ref No	1712B
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc1	59	$\bar{x} =$	Vc1	57	$\bar{x} =$	Vc1	46	$\bar{x} =$	Vc1	47	$\bar{x} =$
Vc2	46	52.5	Vc2	57	57	Vc2	40	43	Vc2	45	46
30 ≤ \bar{x} of Nv ₀ ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv ₀ ? Yes		

Test suspension and test (N and N ₀):	N	Vc1	Vc2	X _{wm}	2.11E+08	lg N =	8.32
	10 ⁻⁶	225	196	N ₀ = N/10 ; lg N ₀ =		7.32	
	10 ⁻⁷	24	19	7.17 ≤ lg N ₀ ≤ 7.70?	Yes		
				\bar{x} quotient = >5 and <15?		9.79	

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x 10	lg Na	lg R N ₀ =	7.32	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.18	5 Minutes	Pass

Escherichia coli ATCC 10536

Validation and controls										Ref No	1712B
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc1	95	$\bar{x} =$	Vc1	81	$\bar{x} =$	Vc1	73	$\bar{x} =$	Vc1	107	$\bar{x} =$
Vc2	83	89	Vc2	73	77	Vc2	96	84.5	Vc2	81	94
30 ≤ \bar{x} of Nv ₀ ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv ₀ ? Yes		

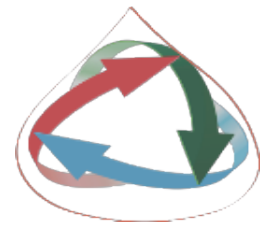
Test suspension and test (N and N ₀):	N	Vc1	Vc2	X _m	4.25E+08	lg N =	8.63
	10 ⁻⁶	>330	>330	N ₀ = N/10 ; lg N ₀ =		7.63	
	10 ⁻⁷	37	48	7.17 ≤ lg N ₀ ≤ 7.70?	Yes		
				\bar{x} quotient = >5 and <15?		N/A	

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x 10	lg Na	lg R N ₀ =	7.63	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.48	5 Minutes	Pass

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Enterococcus hirae ATCC 10541

Validation and controls										Ref No	1712B
Validation suspension (N _{v0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc1	69	$\bar{x} =$	Vc1	63	$\bar{x} =$	Vc1	73	$\bar{x} =$	Vc1	56	$\bar{x} =$
Vc2	79	74	Vc2	73	68	Vc2	64	68.5	Vc2	49	52.5
30 ≤ \bar{x} of N _{v0} ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of N _{v0} ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of N _{v0} ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of N _{v0} ? Yes		

Test suspension and test

Test suspension (N and N ₀):	N	Vc1	Vc2	X _{wm} 2.62E+08 ; lg N = 8.42 N ₀ = N/10 ; lg N ₀ = 7.42 7.17 ≤ lg N ₀ ≤ 7.70? Yes \bar{x} quotient = >5 and <15? 10.52
	10 ⁻⁶	256	270	
	10 ⁻⁷	24	26	

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x10	lgNa	lgR N ₀ = 7.42	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.27	5 Minutes	Pass

Salmonella Typhimurium NCTC
13665

Validation and controls										Ref No	1712B
Validation suspension (N _{v0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc1	93	$\bar{x} =$	Vc1	69	$\bar{x} =$	Vc1	79	$\bar{x} =$	Vc1	75	$\bar{x} =$
Vc2	83	88	Vc2	59	64	Vc2	74	76.5	Vc2	78	76.5
30 ≤ \bar{x} of N _{v0} ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of N _{v0} ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of N _{v0} ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of N _{v0} ? Yes		

Test suspension and test

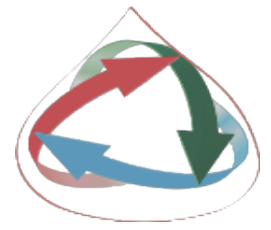
Test suspension (N and N ₀):	N	Vc1	Vc2	X _m 3.50E+08 ; lg N = 8.54 N ₀ = N/10 ; lg N ₀ = 7.54 7.17 ≤ lg N ₀ ≤ 7.70? Yes \bar{x} quotient = >5 and <15? 9.43
	10 ⁻⁶	330	330	
	10 ⁻⁷	30	40	

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x10	lgNa	lgR N ₀ = 7.54	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.39	5 Minutes	Pass

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Listeria monocytogenes serovar
1/2a NCTC 7973

Validation and controls										Ref No	1712B
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc:		
Vc1	111	$\bar{x} =$	Vc1	98	$\bar{x} =$	Vc1	90	$\bar{x} =$	Vc1	81	$\bar{x} =$
Vc2	107	109	Vc2	84	91	Vc2	86	88	Vc2	77	79
30 ≤ \bar{x} of Nv ₀ ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv ₀ ? Yes		

Test suspension and test (N and N ₀):	N	Vc1	Vc2	X _m	4.90E+08	lg N =	8.69
	10 ⁻⁶	330	330	N ₀ = N/10 ; lg N ₀ =		7.69	
	10 ⁻⁷	57	41	7.17 ≤ lg N ₀ ≤ 7.70?		Yes	
				\bar{x} quotient = >5 and <15?			6.73

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x 10	lg Na	lg R N ₀ =	7.69	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.54	5 Minutes	Pass

Staphylococcus epidermidis
MRSE NCTC 11964

Validation and controls										Ref No	1712B
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc:		
Vc1	43	$\bar{x} =$	Vc1	55	$\bar{x} =$	Vc1	35	$\bar{x} =$	Vc1	45	$\bar{x} =$
Vc2	45	44	Vc2	36	45.5	Vc2	42	38.5	Vc2	38	41.5
30 ≤ \bar{x} of Nv ₀ ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv ₀ ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv ₀ ? Yes		

Test suspension and test (N and N ₀):	N	Vc1	Vc2	X _m	1.66E+08	lg N =	8.22
	10 ⁻⁶	148	184	N ₀ = N/10 ; lg N ₀ =		7.22	
	10 ⁻⁷	16	18	7.17 ≤ lg N ₀ ≤ 7.70?		Yes	
				\bar{x} quotient = >5 and <15?			9.76

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x 10	lg Na	lg R N ₀ =	7.22	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.07	5 Minutes	Pass