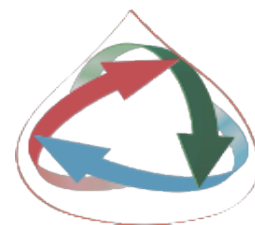


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Laboratory Testing Services

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. doylei 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.



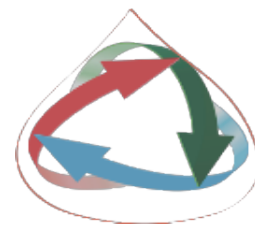
TECHNICAL CENTRE: - TOPLEY HOUSE, OFFICE 7,
52 WASH LANE, BURY, LANCS, BL9 6AS.

TEL: 0161 764 9221 / 07760760346 EMAIL: al-bioservices@hotmail.co.uk www.al-bioservices.co.uk

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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 (Nv0)			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 ≤ \bar{x} of Nv0 ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv0? Yes			

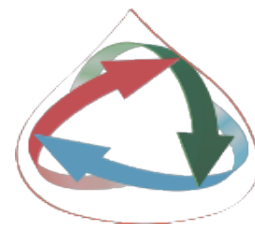
Test suspension and test (N and N0):	N	Vc1	Vc2	X _{wm} 2.70E+08 ; lg N = 8.43		
	10 ⁻⁶	239	288	N ₀ = N / 10 ; lg N ₀ = 7.43		
	10 ⁻⁷	38	29	7.17 ≤ lg N ₀ ≤ 7.70? Yes \bar{x} quotient => 5 and < 15? 7.87		

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x 10	lg Na	lgR N ₀ =	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.43 >5.29	5 Minutes	Pass

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Campylobacter jejuni subsp.
Doyleii NCTC 11951

Validation and controls									Ref No		1712B	
Validation suspension (Nv0)			Experimental conditions control (A)			Neutralizer control B)			Method validation (C) Product conc:			
Vc1	91	\bar{x} = 89	Vc1	78	\bar{x} = 84.5	Vc1	84	\bar{x} = 86.5	Vc1	69	\bar{x} = 72.5	
Vc2	87		Vc2	91		Vc2	89		Vc2	76		
30 ≤ \bar{x} of Nv0 ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv0 ? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv0 ? Yes			

Test suspension and test

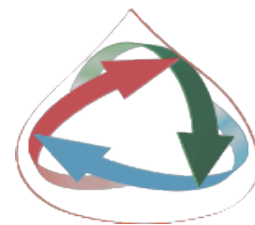
Test suspension (N and N ₀):	N	Vc1	Vc2	X _m 3.45E+08 ; lg N = 8.54	
	10 ⁻⁶	330	330	N ₀ = N/10 ; lg N ₀ = 7.54	
	10 ⁻⁷	31	38	7.17 ≤ lg N ₀ ≤ 7.70? Yes	
				\bar{x} quotient = >5 and <15? 9.57	

Conc. of the active (%)	Vc1	Vc2	N _a = \bar{x} x10	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 (Nv0)			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 Nv0 ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv0? Yes		

Test suspension and test

Test suspension (N and N0):	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} x10	lgNa	lgR N ₀ =	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.32 >5.18	5 Minutes	Pass

Escherichia coli ATCC 10536

Validation and controls										Ref No	1712B
Validation suspension (Nv0)			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 Nv0 ≤ 160? Yes			\bar{x} of A is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of B is ≥ 0.5 \bar{x} of Nv0? Yes			\bar{x} of C is ≥ 0.5 \bar{x} of Nv0? Yes		

Test suspension and test

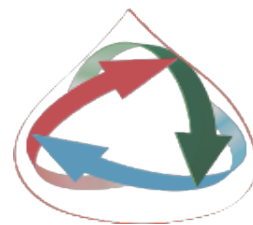
Test suspension (N and N0):	N	Vc1	Vc2	X _m 4.25E+08 ; lg N = 8.63		
	10 ⁻⁶	>330	>330	N ₀ = N / 10 ; lg N ₀ = 7.63		
	10 ⁻⁷	37	48	7.17 ≤ lg N ₀ ≤ 7.70? Yes \bar{x} quotient = >5 and <15? N/A		

Conc. of the active (%)	Vc1	Vc2	Na = \bar{x} x10	lgNa	lgR N ₀ =	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.63 >5.48	5 Minutes	Pass

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Enterococcus hirae ATCC 10541

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	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 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 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} x 10	lgNa	lgR N ₀ =	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.42 >5.27	5 Minutes	Pass

Salmonella Typhimurium NCTC
13665

Validation and controls									Ref No		1712B	
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control B)			Method validation (C) Product conc:			
Vc1	93	\bar{x} = 88	Vc1	69	\bar{x} = 64	Vc1	79	\bar{x} = 76.5	Vc1	75	\bar{x} = 76.5	
Vc2	83		Vc2	59		Vc2	74		Vc2	78		
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			

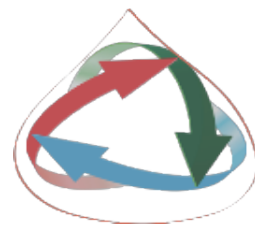
Test suspension and test Test suspension (N and N ₀):	N	Vc1	Vc2	X _m 3.50E+08 ; lg N = 8.54 N ₀ = N / 10 ; lg N ₀ = 7.54 7.17 ≤ lg N ₀ ≤ 7.70? Yes \bar{x} quotient = >5 and <15? 9.43
	10 ⁻⁶	330	330	
	10 ⁻⁷	30	40	

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

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Listeria monocytogenes serovar
I/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

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

Conc. of the active (%)	Vc1	Vc2	N _a = \bar{x} x 10	lg N _a	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

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

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