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 15442 Staphylococcus aureus ATCC 6538 Escherichia coli ATCC 10536 Enterococcus hirae ATCC 10541 Salmonella Typhimurium NCTC 13665 Listeria monocytogenes serovar I/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.

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

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≤ $\bar{x}$ of Nv_0 ≤ 160? Yes			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of Nv_0? Yes			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of Nv_0? Yes			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of Nv_0? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc1	Vc2	Xwm 2.70E+08 ; lg N = 8.43
	10^{-6}	239	288	$N_0 = N/10$; lgN_0= 7.43
	10^{-7}	38	29	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient =>5 and <15? 7.87

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 (Nv_0)			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 Nv_0 ≤ 160? Yes			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of Nv_0? Yes			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of Nv_0? Yes			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of Nv_0? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc1	Vc2	Xm 3.45E+08 ; lg N = 8.54
	10^{-6}	330	330	$N_0 = N/10$; lgN_0 = 7.54
	10^{-7}	31	38	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient = >5 and <15? 9.57

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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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

Test suspension (N and N_0):	N	Vc1	Vc2	Xwm 2.11E+08 ; lg N = 8.32
	10^{-6}	225	196	$N_0 = N/10$; lgN_0 = 7.32
	10^{-7}	24	19	7.17 ≤ lgN_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 = 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

Test suspension (N and N_0):	N	Vc1	Vc2	Xm 4.25E+08 ; lg N = 8.63
	10^{-6}	>330	>330	$N_0 = N/10$; lgN_0 = 7.63
	10^{-7}	37	48	7.17 ≤ lgN_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 = 7.63		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.48	5 Minutes	Pass

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	Xwm 2.62E+08 ; lg N = 8.42
	10^{-6}	256	270	$N_0 = N/10$; lgN_0 = 7.42
	10^{-7}	24	26	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient = >5 and <15? 10.52

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:		
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	Xm 3.50E+08 ; lg N = 8.54
	10^{-6}	330	330	$N_0 = N/10$; lgN_0 = 7.54
	10^{-7}	30	40	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient = >5 and <15? 9.43

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

Listeria monocytogenes serovar I/2a NCTC 7973

Validation and controls

Ref No	1712B

Validation suspension (N_{v0})			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 N_{v0} ≤ 160? Yes			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of N_{v0}? Yes			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of N_{v0}? Yes			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of N_{v0}? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc1	Vc2	Xm 4.90E+08 ; lg N = 8.69
	10^{-6}	330	330	$N_0 = N/10$; lgN_0 = 7.69
	10^{-7}	57	41	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient = >5 and <15? 6.73

Conc. of the active (%)	Vc1	Vc2	Na = $\bar{x}$ x10	lgNa	lgR 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 (N_{v0})			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 N_{v0} ≤ 160? Yes			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of N_{v0}? Yes			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of N_{v0}? Yes			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of N_{v0}? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc1	Vc2	Xm 1.66E+08 ; lg N = 8.22
	10^{-6}	148	184	$N_0 = N/10$; lgN_0 = 7.22
	10^{-7}	16	18	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient = >5 and <15? 9.76

Conc. of the active (%)	Vc1	Vc2	Na = $\bar{x}$ x10	lgNa	lgR N_0 = 7.22		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.07	5 Minutes	Pass