

Scientific Services

**Willow Farm,
Stewton,
Louth,
Lincolnshire,
LN11 8SD**

**Consultant Microbiologists
Animal feed Chemists**

K120893-4

31st January 2020

LABORATORY REPORT

ITEMS: Aerosol Sanitiser fluid, Ref: 27/01/20

TESTS: BSEN1276:2019
Concentration: Ready to use
Temperature: 20 C
Contact time: 5 minutes
Interfering substance: Bovine Albumin 3.0g/l (dirty)
Storage conditions: Room temperature, out of direct sunlight
Active substances: Not given
Test Date: 29th January 2020

Recovery: Dilution neutralisation, using:-

Tryptone Soya Broth containing Tween 80 100ml/l,
Lecithin 30g/l, Sodium thiosulphate 5g/l, L-histidine
1g/l, L-cystine 1g/l

Test organism: Streptococcus equi ATCC 33398

SUMMARY & CONCLUSIONS:

K120893-4

Organism	Control	Aerosol Sanitiser fluid (Ready to use)	Log Reduction
Streptococcus equi ATCC 33398	2.36x10 E7	<10 (<140)	>6.37 (>5.22)

All test results below 140 (1.4x10 E2) are required to be reported as <140

The sample complies with the criteria of BSEN1276:2019 (log 5 reduction) after 5 minutes contact, against Streptococcus equi, under the test conditions stated.

KM Self

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Microbiology,
Participating in the National Agricultural Check Sample Service**

Detailed Results K120893-4 Aerosol Sanitiser fluid

Streptococcus equi ATCC 33398

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	242	228	Weighted Mean = 2.36x10 E8	log = 8.37
10 ⁻⁷	23	26	No = N/10 = 2.36x10 E7	log = 7.37

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.37 (>5.22)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
60	54	57

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
54	56	55

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
50	58	54

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
51	53	52

SUMMARY & CONCLUSIONS:

K119759-60

Organism	Control	Aerosol Sanitiser (Ready to use)	Log Reduction
Candida albicans ATCC 10231	2.58x10 E6	<10 (<140)	>5.41 (>4.26)
Aspergillus niger ATCC 16404	2.05x10 E6	<10 (<140)	>5.31 (>4.16)

All test results below 140 (1.4x10 E2) are required to be reported as <140.

The sample complies with the criteria of BSEN1650:2008 against Candida albicans and Aspergillus niger under the test conditions stated.

KMSelf

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Detailed Results K119759-60 Aerosol Sanitiser

Candida albicans ATCC 10231

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁵	248	268	Weighted Mean = 2.58x10 E7 No = N/10 = 2.58x10 E6	log = 7.41
10 ⁻⁶	24	28		log = 6.41

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x 10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>5.41 (>4.26)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
65	60	62.5

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
65	62	63.5

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
57	60	58.5

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
56	61	58.5

Detailed Results K119759-60 Aerosol Sanitiser

Aspergillus niger ATCC 16404

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁵	198	210	Weighted Mean = 2.05x10 E7 No = N/10 = 2.05x10 E6	log = 7.31
10 ⁻⁶	17	25		log = 6.31

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x 10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>5.31 (>4.16)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
52	60	56

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
50	54	52

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
47	57	52

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
46	54	50

Scientific Services

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Consultant Microbiologists

K119787-8

23rd April 2019

LABORATORY REPORT

SOURCE: X-Mist

ITEMS: Aerosol Sanitiser

TESTS: BSEN1276:2009
Concentration: Ready to use
Temperature: 20 C
Contact time: 5 minutes
Interfering substance: Bovine Albumin 3.0g/l (dirty)
Storage conditions: Room temperature, out of direct sunlight
Active substances: Not given
Test Date: 5th April 2019

Recovery: Dilution neutralisation, using:-

Tryptone Soya Broth containing Tween 80 100ml/l,
Lecithin 30g/l, Sodium thiosulphate 5g/l, L-histidine
1g/l, L-cystine 1g/l

Test organism: Legionella pneumophila ATCC 33152

SUMMARY & CONCLUSIONS:

K119787-8

Organism	Control	Aerosol Sanitiser (Ready to use)	Log Reduction
Legionella pneumophila ATCC 33152	2.29x10 E7	<10 (<140)	>6.36 (>5.21)

All test results below 140 (1.4x10 E2) are required to be reported as <140

The sample complies with the criteria of BSEN1276:2009 against Legionella pneumophila under the test conditions stated.

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Detailed Results K119787-8 Aerosol Sanitiser

Legionella pneumophila ATCC 33152

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	222	236	Weighted Mean = 2.29x10 E8	log = 8.36
10 ⁻⁷	21	25	No = N/10 = 2.29x10 E7	log = 7.36

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.36 (>5.21)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
52	55	53.5

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
50	60	55

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
47	57	52

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
44	51	47.5

Scientific Services

**Willow Farm,
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Consultant Microbiologists

K119757-8

1st April 2019

LABORATORY REPORT

SOURCE: X-Mist

ITEMS: Aerosol Sanitiser

TESTS: BSEN1276:2009
Concentration: Ready to use
Temperature: 20 C
Contact time: 5 minutes
Interfering substance: Bovine Albumin 3.0g/l (dirty)
Storage conditions: Room temperature, out of direct sunlight
Active substances: Not given
Test Date: 29th March 2019

Recovery: Dilution neutralisation, using:-

Tryptone Soya Broth containing Tween 80 100ml/l,
Lecithin 30g/l, Sodium thiosulphate 5g/l, L-histidine
1g/l, L-cystine 1g/l

Test organisms:	Escherichia coli	ATCC 10536
	Pseudomonas aeruginosa	ATCC 15442
	Methicillin resistant	
	Staphylococcus aureus	NCTC 12493

SUMMARY & CONCLUSIONS:

K119757-8

Organism	Control	Aerosol Sanitiser (Ready to use)	Log Reduction
Escherichia coli ATCC 10536	2.60x10 E7	<10 (<140)	>6.41 (>5.26)
Pseudomonas aeruginosa ATCC 15442	2.89x10 E8	<10 (<140)	>6.46 (>5.31)
Methicillin resistant Staphylococcus aureus NCTC 12493	2.73x10 E7	1.65x10 E2	5.22

All test results below 140 (1.4x10 E2) are required to be reported as <140

The sample complies with the criteria of BSEN1276:2009 against all three organisms under the test conditions stated.

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Detailed Results K119757-8 Aerosol Sanitiser

Escherichia coli ATCC 10536

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	248	270	Weighted Mean = 2.60x10 E8	log = 8.41
10 ⁻⁷	25	29	No = N/10 = 2.60x10 E7	log = 7.41

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.41 (>5.26)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
66	60	63

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
65	58	61.5

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
60	54	57

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
54	58	56

Detailed Results K119757-8 Aerosol Sanitiser

Pseudomonas aeruginosa ATCC 15442

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	280	298	Weighted Mean = 2.89x10 E8	log = 8.46
10 ⁻⁷	27	31	No = N/10 = 2.89x10 E7	log = 7.46

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x 10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.46 (>5.31)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
75	70	72.5

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
70	71	70.5

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
67	74	70.5

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
66	70	68

Detailed Results K119757-8 Aerosol Sanitiser

Methicillin resistant Staphylococcus aureus NCTC 12493

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	280	266	Weighted Mean = 2.73x10 E8 No = N/10 = 2.73x10 E7	log = 8.44 log = 7.44
10 ⁻⁷	25	29		

Test (Na)

V _{C1}	V _{C2}	mean		
15	18	16.5	Na = mean x10 = 1.65x10 E2	log = 2.22

Log Reduction

5.22

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
68	70	69

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
60	70	65

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
66	60	63

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
60	58	59