

Scientific Services

**Consultant Microbiologists
Animal feed Chemists**

**Willow Farm,
Stewton,
Louth,
Lincolnshire,
LN11 8SD
Mob: 07770 872461
Tel/Messages: 01507 328552
Email: kevinm.self@tiscali.co.uk**

K121173-4

2nd June 2020

LABORATORY REPORT

SOURCE: X-Mist

ITEMS: X-Mist aerosol - fluid

TESTS: BSEN1650:2019
Concentration: Neat
Temperature: 20°C
Contact time: 15 minutes
Interfering substance: Bovine Albumin 3.0g/l (dirty)
Storage conditions: Room temperature, out of direct sunlight
Active substances: Not given
Test Date: 28th May 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 organisms: Candida albicans ATCC 10231
Aspergillus niger ATCC 16404

SUMMARY & CONCLUSIONS:

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Organism	Control	X-Mist aerosol - fluid	Log Reduction
Candida albicans ATCC 10231	2.53x10 E6	<10 (<140)	>5.40 (>4.25)
Aspergillus niger ATCC 16404	2.01x10 E6	<10 (<140)	>5.30 (>4.15)

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

The sample complies with the criteria of BSEN1650:2019 (log 4 reduction) after 15 minutes contact, against Candida albicans and Aspergillus niger under the test conditions stated.

KM Self

K.M.Self, M.B.I.C.Sc.,M.R.S.P.H.,A.M.S.B.

**Proprietor: K M Self, M.R.S.P.H.,M.B.I.C.Sc.,A.M.S.B., Member of the Society for General
Microbiology,
Participating in the National Agricultural Check Sample Service**

Detailed Results K121173-4 X-Mist aerosol - fluid

Candida albicans ATCC 10231

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁵	268	240	Weighted Mean = 2.53x10 E7	log = 7.40
10 ⁻⁶	22	26	No = N/10 = 2.53x10 E6	log = 6.40

Test (Na)

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

Log Reduction

>5.40 (>4.25)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
60	64	62

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
63	59	61

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
60	55	57.5

Dilution Neutralisation Control (C)

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

Detailed Results K121173-4 X-Mist aerosol - fluid

Aspergillus niger ATCC 16404

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁵	210	197	Weighted Mean = 2.01x10 E7 No = N/10 = 2.01x10 E6	log = 7.30
10 ⁻⁶	17	19		log = 6.30

Test (Na)

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

Log Reduction

>5.30 (>4.15)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
50	48	49

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
47	51	49

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
52	44	48

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
46	40	43