

# Scientific Services

**Consultant Microbiologists  
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K121469-70

17<sup>th</sup> August 2020

## LABORATORY REPORT

**SOURCE:** Wiper Supply Services

**ITEMS:** Germ-Buster Wipes, 4/8 (expelled fluid)

**TESTS:** BSEN16615:2015  
Temperature: 20°C  
Contact time: 5 minutes  
Interfering substance: Bovine Albumin 3.0g/l (dirty)  
Storage conditions: Room temperature, out of direct sunlight  
Product usage: Double folded wipe  
Test Date: 7<sup>th</sup> 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:	Staphylococcus aureus	ATCC 6538
	Pseudomonas aeruginosa	ATCC 15442
	Enterococcus hirae	ATCC 10541
	Candida albicans	ATCC 10231

## **SUMMARY & CONCLUSIONS:**

K121469-70

Organism	Log T <sub>1</sub>	Log Na	Log Reduction	Pass/Fail	Mean TF2-4 cfu/25cm <sup>2</sup>	Pass/Fail
S.aureus	7.10	1.95	5.15	Pass	<13	Pass
Ps.aeruginosa	7.06	<0.7 (<1.85)	>6.36 (>5.21)	Pass	<7	Pass
E.hirae	7.00	1.00 (<1.85)	6.00 (>5.15)	Pass	<5	Pass
C.albicans	6.10	1.00 (<1.85)	5.10 (>4.25)	Pass	<13	Pass

The sample complies with the criteria of BSEN16615:2015 against all four organisms, after 5 minutes contact under the test conditions stated.

Pass Criteria: Bacteria: Log 5 and mean of TF2-4 <50 cfu/25cm<sup>2</sup>  
Yeast: Log 4 and mean of TF2-4 <50 cfu/25cm<sup>2</sup>

*KMSelf*

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**Detailed Results:** K121469-70 Germ-Buster Wipes

Staphylococcus aureus ATCC 6538

Test Suspension (N + No)

N	VC1	VC2	Weighted Mean (N) =	2.42x10 E9	log = 9.38
10 <sup>-7</sup>	250	234	No = N/20 =	1.21x10 E8	log = 8.08
10 <sup>-8</sup>	26	23			

Drying Controls

Drying Time 55 mins ± 5 mins

Start (Dc0)

T0	VC1	VC2	Weighted Mean T0 =	1.21x10 E7	log = 7.08
10 <sup>-5</sup>	110	126			
10 <sup>-6</sup>	15	14			

End (Dc1)

T1	VC1	VC2	Weighted Mean T1 =	1.25x10 E7	log = 7.10
10 <sup>-5</sup>	108	136			
10 <sup>-6</sup>	14	16			

Test Field 1

Test Wipe	Dilution	VC1	VC2	Mean (Na)	Log
Germ-Buster	10 <sup>-0</sup>	17 (85)	19 (95)	18 (90)	1.95

VC figures are calculated by taking the number of colonies per plate and multiplying by 5. Plates with <14 colonies are required to be reported as such.

Log Reduction (log T1 – Log Na)

Test Wipe = 5.15

**Detailed Results:** K121469-70 Germ-Buster Wipes

Staphylococcus aureus ATCC 6538 (continued)

Test Fields 2-4 (cfu/25cm<sup>2</sup>)

Sample	Dilution	Vc TF2	Vc TF3	Vc TF4	Mean x 5 = CFU/25cm <sup>2</sup>
Test Wipe	10 <sup>0</sup>	6	<1	<1	<13
Water Control	10 <sup>0</sup>	>330	>330	>330	>1650
	10 <sup>-1</sup>	40	72	41	2550

A valid test must exhibit test wipe mean of <50 and Water control mean of >10.

Validation & Controls

Validation Suspension (Nvo)

Vc1	Vc2	Mean
60	57	58.5

Neutraliser Control (B)

Vc1	Vc2	Mean
54	58	56

Method Validation Control (C)

Vc1	Vc2	Mean
51	60	55.5

Pass Criteria: Bacteria log 5 + mean of TF2-4 <50 cfu/25cm<sup>2</sup>

**Detailed Results:** K121469-70 Germ-Buster Wipes

Pseudomonas aeruginosa ATCC 15442

Test Suspension (N + No)

N	VC1	VC2	Weighted Mean (N) =	2.64x10 E9	log = 9.42
10 <sup>-7</sup>	270	254	No = N/20 =	1.32x10 E8	log = 8.12
10 <sup>-8</sup>	26	30			

Drying Controls

Drying Time 55 mins ± 5 mins

Start (Dc0)

T0	VC1	VC2	Weighted Mean T0 =	1.16x10 E7	log = 7.06
10 <sup>-5</sup>	110	118			
10 <sup>-6</sup>	9	15			

End (Dc1)

T1	VC1	VC2	Weighted Mean T1 =	1.14x10 E7	log = 7.06
10 <sup>-5</sup>	120	106			
10 <sup>-6</sup>	14	12			

Test Field 1

Test Wipe	Dilution	VC1	VC2	Mean (Na)	Log
Germ-Buster	10 <sup>-0</sup>	<1 (<5) <14 (<70)	<1 (<5) <14 (<70)	<1 (<5) <14 (<70)	<0.70 (<1.85)

VC figures are calculated by taking the number of colonies per plate and multiplying by 5. Plates with <14 colonies are required to be reported as such.

Log Reduction (log T1 – Log Na)

Test Wipe = >6.36 (>5.21)

**Detailed Results:** K121469-70 Germ-Buster Wipes

Pseudomonas aeruginosa ATCC 15442 (continued)

Test Fields 2-4 (cfu/25cm<sup>2</sup>)

Sample	Dilution	Vc TF2	Vc TF3	Vc TF4	Mean x 5 = CFU/25cm <sup>2</sup>
Test Wipe	10 <sup>0</sup>	<1	<1	2	<7
Water Control	10 <sup>0</sup>	>330	>330	>330	>1650
	10 <sup>-1</sup>	58	70	78	3433

A valid test must exhibit test wipe mean of <50 and Water control mean of >10.

Validation & Controls

Validation Suspension (Nvo)

Vc1	Vc2	Mean
65	70	67.5

Neutraliser Control (B)

Vc1	Vc2	Mean
63	68	65.5

Method Validation Control (C)

Vc1	Vc2	Mean
61	64	62.5

Pass Criteria: Bacteria log 5 + mean of TF2-4 <50 cfu/25cm<sup>2</sup>

**Detailed Results:** K121469-70 Germ-Buster Wipes

Enterococcus hirae ATCC 10541

Test Suspension (N + No)

N	VC1	VC2	Weighted Mean (N) =	2.29x10 E9	log = 9.36
10 <sup>-7</sup>	228	230	No = N/20 =	1.15x10 E8	log = 8.06
10 <sup>-8</sup>	21	25			

Drying Controls

Drying Time 55 mins ± 5 mins

Start (Dc0)

T0	VC1	VC2	Weighted Mean T0 =	1.00x10 E7	log = 7.00
10 <sup>-5</sup>	98	102			
10 <sup>-6</sup>	8	12			

End (Dc1)

T1	VC1	VC2	Weighted Mean T1 =	1.01x10 E7	log = 7.00
10 <sup>-5</sup>	97	104			
10 <sup>-6</sup>	10	10			

Test Field 1

Test Wipe	Dilution	VC1	VC2	Mean (Na)	Log
Germ-Buster	10 <sup>-0</sup>	2 (10) <14 (<70)	2 (10) <14 (<70)	2 (10) <14 (<70)	1.00 (<1.85)

VC figures are calculated by taking the number of colonies per plate and multiplying by 5. Plates with <14 colonies are required to be reported as such.

Log Reduction (log T1 – Log Na)

Test Wipe = 6.00 (>5.15)

**Detailed Results:** K121469-70 Germ-Buster Wipes

Enterococcus hirae ATCC 10541 (continued)

Test Fields 2-4 (cfu/25cm<sup>2</sup>)

Sample	Dilution	Vc TF2	Vc TF3	Vc TF4	Mean x 5 = CFU/25cm <sup>2</sup>
Test Wipe	10 <sup>0</sup>	<1	1	1	<5
Water Control	10 <sup>0</sup>	>330	>330	>330	>1650
	10 <sup>-1</sup>	58	64	71	3217

A valid test must exhibit test wipe mean of <50 and Water control mean of >10.

Validation & Controls

Validation Suspension (Nvo)

Vc1	Vc2	Mean
56	58	57

Neutraliser Control (B)

Vc1	Vc2	Mean
50	58	54

Method Validation Control (C)

Vc1	Vc2	Mean
53	60	56.5

Pass Criteria: Bacteria log 5 + mean of TF2-4 <50 cfu/25cm<sup>2</sup>



**Detailed Results:** K121469-70 Germ-Buster Wipes

Candida albicans ATCC 10231

Test Suspension (N + No)

N	VC1	VC2	Weighted Mean (N) =	2.52x10 E8	log = 8.40
10 <sup>-6</sup>	240	262	No = N/20 =	1.26x10 E7	log = 7.10
10 <sup>-7</sup>	25	27			

Drying Controls

Drying Time 55 mins ± 5 mins

Start (Dc0)

T0	VC1	VC2	Weighted Mean T0 =	1.26x10 E6	log = 6.10
10 <sup>-4</sup>	136	110			
10 <sup>-5</sup>	15	16			

End (Dc1)

T1	VC1	VC2	Weighted Mean T1 =	1.27x10 E6	log = 6.10
10 <sup>-4</sup>	127	124			
10 <sup>-5</sup>	12	15			

Test Field 1

Test Wipe	Dilution	VC1	VC2	Mean (Na)	Log
Germ-Buster	10 <sup>-0</sup>	2 (10) <14 (<70)	2 (10) <14 (<70)	2 (10) <14 (<70)	1.00 (<1.85)

VC figures are calculated by taking the number of colonies per plate and multiplying by 5. Plates with <14 colonies are required to be reported as such.

Log Reduction (log T1 – Log Na)

Test Wipe = 5.10 (>4.25)

**Detailed Results:** K121469-70 Germ-Buster Wipes

Candida albicans (continued)

Test Fields 2-4 (cfu/25cm<sup>2</sup>)

Sample	Dilution	Vc TF2	Vc TF3	Vc TF4	Mean x 5 = CFU/25cm <sup>2</sup>
Test Wipe	10 <sup>0</sup>	6	<1	<1	<13
Water Control	10 <sup>0</sup>	286	202	174	1103
	10 <sup>-1</sup>	35	18	18	1183

A valid test must exhibit test wipe mean of <50 and Water control mean of >10.

Validation & Controls

Validation Suspension (Nvo)

Vc1	Vc2	Mean
60	66	63

Neutraliser Control (B)

Vc1	Vc2	Mean
60	57	58.5

Method Validation Control (C)

Vc1	Vc2	Mean
55	62	58.5

Pass Criteria: Yeast log 4 + mean of TF2-4 <50 cfu/25cm<sup>2</sup>