

Test Report: EN 13727 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1)

Test Laboratory

BluTest Laboratories Ltd

Robertson Incubator (Level 4)
Robertson Building
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Glasgow
UK - G11 6NU

Identification of sample

Name of the product
Batch code
Client
Project Code
Sample Delivery Date
Storage conditions
Active substances

DUOMAX STRAINED WIPES FLUID

N/A

DuoTech Ltd, 11-12 Queens Square, Bristol, BS1 4NT
BT-DUO-17A-03
10 May 2012
Ambient
N/A

Test Method and its validation

Method
Neutralizer

Chemical-neutralization
Specialist neutraliser: Lecithin 11.7g/l, Polysorbate 80 100g/l, sodium thiosulphate 5.0g/l, sodium dodecyl sulphate 10.0g/l, sodium chloride 8.5g/l, tryptone 1.0g/l sterilized by autoclave.

Experimental Conditions

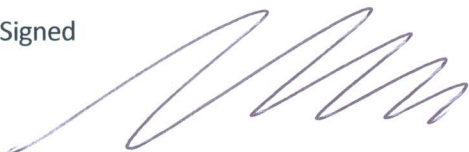
Period of analysis
Product diluent used
Product test concentrations
Appearance product dilutions
Contact time (minutes)
Test temperature
Interfering substance
Stability of mixture
Temperature of incubation
Identification of strains

20 to 25 June 2012
Sterile, distilled water
1.00 % V/V; 50.00 % V/V; 80.00% V/V
Cloudy at 50.00% V/V and 80.00% V/V
 $t = 5 \pm 10s$
 $20^{\circ}C \pm 1^{\circ}C$
0.3g/l bovine serum albumin
Stable
 $37^{\circ}C \pm 1^{\circ}C$
Pseudomonas aeruginosa ATCC 15442
Staphylococcus aureus ATCC 6538
Enterococcus hirae ATCC 10541

Conclusion

According to EN 13727, **DUOMAX STRAINED WIPES FLUID** is bactericidal under **CLEAN conditions** (0.3 g/l bovine serum albumin) at $20^{\circ}C$ for referenced strains *Pseudomonas aeruginosa* ATCC 15442, *Staphylococcus aureus* ATCC 6538 and *Enterococcus hirae* ATCC 10541.

Signed



Dr Chris Woodall, Director
BluTest Laboratories Ltd
Glasgow, UK, 27 June 2012

EN13727 Results for the efficacy of DUOMAX STRAINED WIPES FLUID from DUOTECH Ltd under CLEAN conditions

Test organisms	Validation test				Bacterial test suspension (N)	Test procedure at concentration % (V/V)		
	Bacterial Suspension (Nv)	Experimental conditions (A)	Neutralizer toxicity Control or filtration control (B)	Dilution-neutralization control or filtration test control (C)		1	50	80
<i>Pseudomonas aeruginosa</i>	Vc: 90 ; 89	Vc: 67 ; 65	Vc: 82 ; 81	Vc: 71 ; 66	10^{-6} : >330 ; >330 10^{-7} : 42 ; 33 N: 3.75E+08	Vc: 11 ; 7 Na: <1.40E+02 R: >10(5)	0 ; 0 <1.40E+02 >10(5)	0 ; 0 <1.40E+02 >10(5)
ATCC 15442	Nv: 8.95E+02	A: 6.60E+01	B: 8.15E+01	C: 6.85E+01				
Validation	$30 \leq Nv_0 \leq 160$? yes	$A \geq 0.5 \times Nv_0$? yes	$B \geq 0.5 \times Nv_0$? yes	$C \geq 0.5 \times Nv_0$? yes	$7.17 \leq \log N_0 \leq 7.70$? yes	Test is valid		
<i>Staphylococcus aureus</i>	Vc: 67 ; 58	Vc: 56 ; 47	Vc: 58 ; 47	Vc: 59 ; 48	10^{-6} : 223 ; 224 10^{-7} : 21 ; 17 N: 2.24E+08	Vc: 0 ; 0 Na: <1.40E+02 R: >10(5)	0 ; 0 <1.40E+02 >10(5)	0 ; 0 <1.40E+02 >10(5)
ATCC 6538	Nv: 6.25E+02	A: 5.15E+01	B: 5.25E+01	C: 5.35E+01				
Validation	$30 \leq Nv_0 \leq 160$? yes	$A \geq 0.5 \times Nv_0$? yes	$B \geq 0.5 \times Nv_0$? yes	$C \geq 0.5 \times Nv_0$? yes	$7.17 \leq \log N_0 \leq 7.70$? yes	Test is valid		
<i>Enterococcus hirae</i>	Vc: 106 ; 97	Vc: 84 ; 95	Vc: 68 ; 80	Vc: 87 ; 86	10^{-6} : >330 ; >330 10^{-7} : 38 ; 30 N: 3.40E+08	Vc: 0 ; 0 Na: <1.40E+02 R: >10(5)	0 ; 0 <1.40E+02 >10(5)	0 ; 0 <1.40E+02 >10(5)
ATCC 10541	Nv: 1.02E+03	A: 8.95E+01	B: 7.40E+01	C: 8.65E+01				
Validation	$30 \leq Nv_0 \leq 160$? yes	$A \geq 0.5 \times Nv_0$? yes	$B \geq 0.5 \times Nv_0$? yes	$C \geq 0.5 \times Nv_0$? yes	$7.17 \leq \log N_0 \leq 7.70$? yes	Test is valid		

Please note: the upper limit for counting bacterial plates is 330 cfu. Enter as >330

Vc = viable count

N = number of cfu/ml of the bacterial test suspension

Nv = number of cfu/ml in the bacterial suspension

R = reduction in viability

Na = number of cfu/ml in the test mixture

A = number of cfu/ml of the experimental conditions validation

B = number of cfu/ml of the neutralizer toxicity validation or of the filtration validation

C = the number of cfu/ml of the dilution-neutralization validation or the membrane filtration test validation

DISCLAIMER

The results in this test report only pertain to the sample supplied.

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