

LABORATORY TEST RESULTS

Disinfectant testing: Efficacy determination of BRONOCIDE™ according to VC8054 section 5.10

PRODUCT DETAILS

Product Name	BRONOCIDE™
Visual inspection	Clear Liquid

MATERIALS & EXPERIMENTAL CONDITIONS

Date of test	22/10/2016
Test organisms	Bacillus subtilis ATCC11774 Aspergillus brasiliensis ATCC16404 Staphylococcus aureus ATCC6538 Escherichia coli ATC10536 Pseudomonas aeruginosa ATCC15442
Test temperature	22°C
Interfering substance	1% Sterile skimmed milk
Diluent	Sterile hard water
Product concentration/dilution	Neat (use as is)
Neutralizer	Removal by rinsing with distilled water

TEST RESULTS

Organism	S.aureus	Organism	E.coli
Initial concentration (cfu/ml)	2.9 x 10 ⁶	Initial concentration (cfu/ml)	2.1 x 10 ⁶
Contact time	30 seconds	Contact time	30 seconds
Test conditions	Dirty (1% Skimmed milk)	Test conditions	Dirty (1% Skimmed milk)
Final test concentration	0	Final test concentration	0
Log reduction	6.4	Log reduction	6.3
Percentage kill rate	99.9999%	Percentage kill rate	99.9999%

Organism	Paeruginosa	Organism	B.subtilis
Initial concentration (cfu/ml)	3.9 x 10 ⁶	Initial concentration (cfu/ml)	1 x 10 ⁶
Contact time	30 seconds	Contact time	30 seconds
Test conditions	Dirty (1% Skimmed milk)	Test conditions	Dirty (1% Skimmed milk)
Final test concentration	0	Final test concentration	0
Log reduction	6.5	Log reduction	6.0
Percentage kill rate	99.9999%	Percentage kill rate	99.9999%

Organism	A.brasiliensis
Initial concentration (cfu/ml)	7.5 x 10 ⁴
Contact time	30 seconds
Test conditions	Dirty (1% Skimmed milk)
Final test concentration	0
Log reduction	4.8
Percentage kill rate	99.998%

CONCLUSION

BRONOCIDE™ solution was effective in killing an average of 99.9999% of all organisms within a 30 second time period.



INFECTION CONTROL CHALLENGES

With the rising incidence of Hospital Acquired Infections (HAI) that are resistant to an ever increasing range of antibiotics and disinfectants, a next generation product is essential to maintain the levels of cleanliness and hygiene that has become a prerequisite in our day and age, especially considering the statistics of immuno-compromised hosts.

Pathogenic micro-organisms rapidly spread outside of the hospital environment, and become a cause for great concern.

The BRONOCIDE™ range constitutes an effective toolbox of infection control products for dealing with the transmission of pathogenic organisms.

Whilst the development of new antibiotics is needed to combat these infections in human beings, transmission of infection from the external environment needs to be addressed just as aggressively.

The BRONOCIDE™ range of products provides a FULL SPECTRUM disinfectant to deal with this huge problem. Bearing in mind that prevention is always better than cure!

More than 20 years of testing has failed to produce any strains of micro-organisms that are resistant to BRONOCIDE™



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