



Food / Pharmaceutical Division

Reference: FM1006676
12th November, 2010.
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Environmental Technologies Group
16 Mallett road,
Tullamarine, VIC, 3043

Attention: Christine Ooi

LABORATORY REPORT

Sample:

A disinfectant screening test was performed on Alcohol-based hand sanitiser and Alcohol-free hand sanitiser as received from Environmental Technologies Group on 4th November, 2010.

- A. Alcohol-based hand sanitiser
- B. Alcohol-free hand sanitiser

Test Conditions and Sample Concentration:

A 3mL sample of A and B (undiluted) was challenged against 2 test organisms at 30 seconds of time interval.

Procedure:

Derived from *The TGA Disinfectant Test* – Therapeutic Goods Order No: 54 – Option C. Modifications include the use of pour plate methodology and contact times

At the end of each time interval, a 1ml aliquot was taken and added to 9mL of inactivation diluent, vortexed and then plated out using Tryptone Soy Agar and incubated at 37°C for 48 hours.

Inoculum:

Escherichia.coli NCTC 8196
Staphylococcus aureus NCTC 4163





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Results:

*Expressed in colony forming units per mL.

Test Organisms	*Challenge Organism population	*Time Intervals – Sample A (Alcohol-based hand sanitiser)
		30 seconds
<i>E.coli</i>	5.0×10^8	10
<i>S.aureus</i>	1.6×10^8	1.1×10^3

Test Organisms	*Challenge Organism population	*Time Intervals – Sample B (Alcohol-free hand sanitiser)
		30 seconds
<i>E.coli</i>	5.0×10^8	20
<i>S.aureus</i>	1.6×10^8	<10

Conclusion:

The results indicate that both samples have achieved a >5 log (99.999%) reduction at 30 seconds of time intervals against *E.coli* and *S.aureus*.

ALS

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