



Food / Pharmaceutical Division

Reference: FM1007344
1st December, 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 minutes, 2 hours and 4 hours of time intervals.

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 minutes | 2 hours | 4 hours |
| <i>E.coli</i> | 3.3×10^8 | <10 | <10 | <10 |
| <i>S.aureus</i> | 2.3×10^8 | <10 | <10 | <10 |

| Test Organisms | *Challenge Organism population | *Time Intervals – Sample B (Alcohol-free hand sanitiser) | | |
|-----------------|--------------------------------|--|---------|---------|
| | | 30 minutes | 2 hours | 4 hours |
| <i>E.coli</i> | 3.3×10^8 | <10 | <10 | <10 |
| <i>S.aureus</i> | 2.3×10^8 | <10 | <10 | <10 |

Conclusion:

The results indicate that both samples have achieved a >5 log (99.999%) reduction at 30 minutes, 2 hours and 4 hours of time intervals against *E.coli* and *S.aureus*.

ALS

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