



Microbiological Report – Investigation into the Efficacy of CCT Solution

A sample of CCT Solution from CC Technologies Pty Ltd was received on 25 October 2011 (ALS sample number 2798772).

The CCT Solution was challenged with a known level of *Staphylococcus aureus* (NCTC 10788, ATCC 6538). The seeded solution was divided into 3 sub-samples. Each sub-sample was measured initially and at 1, 2, 4 and 24 hours to determine the inactivation capability of *S.aureus* over time.

The experiment commenced on 26th of October, 2011.

The Test Control maintained its level of approximately 600,000 – 700,000 cfu per mL of viable *S.aureus* in sterilised deionised water over the duration of the first 4 hours of the experiment. At 24 hours the level of *S.aureus* had approximately a 1 log reduction.

S.aureus levels in sub-samples A, B and C had between 2.58 and 2.77 log reduction after 1 hour contact time and between 2.60 and 2.66 log reduction after 2 hours contact time.

After 4 and 24 hours contact time there were no viable *S.aureus* colonies observed (limit of reporting is <10 cfu per mL).

After 4 hours there was a significant inactivation of *S.aureus* (ie greater than 3 log₁₀ reduction) with no re-growth at 24 hours.

The CCT Solution supplied by CC Technologies Pty Ltd inactivated *S.aureus* to at least a 3 log₁₀ reduction, (which is the required reduction to achieve a 99.99% kill rate), after 4 hours contact time at room temperature.

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