

ams Laboratories Pty Ltd

ABN 47 075 467 757

8 Rachael Close

SILVERWATER NSW 2216

Australia

Tel: 02 9704 2300

Fax: 02 9737 9425

Certificate of Analysis

Date: 15/06/2010

CLIENT: Environmental Technologies Group
16 Mallett Road
Tullamarine, VIC, 3043

OUR REF: 1004770

ATTN: Daniel Palm

ORDER NO: Not given

SAMPLE DESCRIPTION:

2 x 125ml Ecogreen Instant Natural Sanitiser

2 x 125ml Ecogreen Long Lasting Surface Sanitiser

DATE RECEIVED: 05/08/09

DATE COMMENCED: 25/08/09

Sample tested as received.

EXAMINATION: In-House Method - Longevity Hard Surface Carrier Study

METHOD: Inoculated carriers were allowed to dry, followed by sample treatment according to client's protocols, alongside control (without treatment) in duplicate. The carriers were neutralised at 60 minutes for each challenge day. On each challenge day, both treated and untreated carriers were re-challenge with 10^2 cfu/ml organism.

Sample treatment involves 2-steps treatment: Spray four times at 10cm distance with Ecogreen Instant Natural Sanitiser, leave on for 5 minutes and then dabbed-dry with a sterile wipe, followed by second spray Ecogreen Long Lasting Surface Sanitiser, 4 sprays and 10cm distance.

CONDITIONS:

Temperature: Room Temperature

Concentration: Neat.

Soil: Organic (5% Horse Serum)

Contact Time: 60 minutes

Challenge Days: 0, 2, 7, 14, 28 days

Organisms: *S.aureus* ATCC 6538

E.coli NCTC 8196

Product Neutralisation: The validated neutraliser was T6 (a mixture of Tryptone Soy Broth, Lecithin and Tween 80) and was confirmed prior to actual testing.

RESULTS:

Table 1. Result for *S.aureus* challenge ATCC 6538

Day	Test		Control Inoculum
0	<1.0 x 10 ¹ cfu	<1.0 >4.67 Log reduction	4.7 x 10 ⁵ (5.67)
2	<1.0 x 10 ¹ cfu	0 3.67 Log reduction	4.7 x 10 ⁵ (3.67)
7	<1.0 x 10 ¹ cfu	0 2.57 Log reduction	4.7 x 10 ⁵ (2.57)
14	<1.0 x 10 ¹ cfu	0 2.53 Log reduction	4.7 x 10 ⁵ (2.53)
28	<1.0 x 10 ¹ cfu	0 2.52 Log reduction	4.7 x 10 ⁵ (2.52)

Table 2. Result for *E.coli* challenge NCTC 8196

Day	Cfu/ml	Test Log ₁₀	Control Inoculum
0	<1.0 x 10 ¹ cfu	<1.0 >4.56 Log reduction	3.6 x 10 ⁵ (5.56)
2	0 cfu	0 3.15 Log reduction	1.4 x 10 ³ (3.15)
7	0 cfu	0 2.53 Log reduction	3.4 x 10 ² (2.53)
14	0 cfu	0 2.63 Log reduction	4.3 x 10 ² (2.63)
28	0 cfu	0 2.63 Log reduction	4.3 x 10 ² (2.63)

Final Result:

Ecogreen Instant Natural Sanitiser and in combination of Ecogreen Long Lasting Surface Sanitiser, when used according to the client's procedure as above, has successfully shown to have greater than 99.99% log reduction as immediate effect and 99% log reduction of the longevity effect up to 28 days.

Signed :

Yung Dai, PhD MASM
Manager, Sterile Products Testing laboratory

ams Laboratories Pty Ltd

ABN 47 075 467 757

8 Rachael Close

SILVERWATER NSW 2216

Australia

Tel: 02 9704 2300

Fax: 02 9737 9425