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## Certificate of Analysis Dated: 05/02/2015

**CLIENT:** Enviro Chemicals

**REF NO: 1500784** 

Pelikan Artline

17-19 Waterloo Street Quenbeyan NSW 2620

ATTN:

Erkan Ergun

ORDER NO: not given

SAMPLE DESCRIPTION:

DATE RECEIVED:

14/01/15

1 x Laundry Powder

DATE COMMENCED: 03/02/15

**EXAMINATION:** Anti-microbial Activity Challenge Test (Time-Kill Study)

METHOD: TMD 110

**CONDITIONS:** 

Test organisms:

Staphylococcus aureus

ATCC 6538

Escherichia coli

NCTC 8196

**Test Concentration:** 

Contact Time:

1.5% w/v 20 minutes

**Test Temperature:** 

Ambient

**Interfering Substance:** Dirty Condition

Neutralizer:

T6 1:10 (TSB + Lecithin + Tween 80)

RESULTS:

Table 1: Surviving organisms after exposure to Laundry Powder

Contact Time 20 minutes	Inoculum Count	Laundry Powder	
	CFU/mL (log <sub>10</sub> )	CFU/mL (log <sub>10</sub> )	Log Reduction
Staphylococcus aureus	$4.0 \times 10^7$ (Log 7.60)	< 10 (Log 1.0)	> 6.60
Escherichia coli	$3.5 \times 10^7$ (Log 7.54)	< 10 (Log 1.0)	> 6.54

CFU = Colony Forming Unit

## **COMMENTS:**

The sample "Laundry Powder" has demonstrated significant antibacterial activity against Staphylococcus aureus and Escherichia coli, by achieving a greater than 6.0 log reductions which equates to 99.9999% kill; when tested under the conditions described above.

Signed:

Imtiaz Ahmed

Sterile Product Testing Manager