

*Certificate of Analysis*  
*Dated: 26/08/2011*

**CLIENT:** Castle Chemicals Pty. Ltd.  
16 Rural Drive  
Sandgate NSW 2304

**OUR REF:** 1111700

**ATTN:** Graham Hatfield

**ORDER NO:** 102373

**SAMPLE DESCRIPTION:**

Fight Bac 1 x 5 Litre  
Batch No. TRIAL  
Manufacture Date: 31/05/2011

**DATE RECEIVED:**

18/08/11

**DATE COMMENCED:** 19/08/11

**EXAMINATION:** TGA Disinfectant Test, Option B

Dilution: 1:20

**METHOD:** TM122-04

**RESULTS:**

Test Date	Organisms	Subculture No.	Inoculum (CFU/mL)	1 <sup>st</sup> Challenge	2 <sup>nd</sup> Challenge	Controls
19/08/2011	<i>S. aureus</i>	6	3.2 x 10 <sup>8</sup>	-----	-----	C1 ~
	<i>Escherichia coli</i>	6	3.8 x 10 <sup>8</sup>	-----	-----	C2 ~
	<i>P. aeruginosa</i>	6	4.9 x 10 <sup>8</sup>	-----	-----	C3 + + + +
	<i>Proteus vulgaris</i>	6	5.6 x 10 <sup>8</sup>	-----	-----	C4 + + + +
23/08/2011	<i>S. aureus</i>	7	3.4 x 10 <sup>8</sup>	-----	-----	C1 ~
	<i>Escherichia coli</i>	7	3.4 x 10 <sup>8</sup>	-----	-----	C2 ~
	<i>P. aeruginosa</i>	7	5.7 x 10 <sup>8</sup>	-----	-----	C3 + + + +
	<i>Proteus vulgaris</i>	7	7.4 x 10 <sup>8</sup>	-----	-----	C4 + + + +
24/08/2011	<i>S. aureus</i>	8	3.0 x 10 <sup>8</sup>	-----	-----	C1 ~
	<i>Escherichia coli</i>	8	5.0 x 10 <sup>8</sup>	-----	-----	C2 ~
	<i>P. aeruginosa</i>	8	4.5 x 10 <sup>8</sup>	-----	-----	C3 + + + +
	<i>Proteus vulgaris</i>	8	5.8 x 10 <sup>8</sup>	-----	-----	C4 + + + +

**Report 1111700 continued**

Where

"-" Denotes No Growth

"+" Denotes Growth

"C1" Denotes media sterility check. Must be negative for a valid result

"C2" Denotes sample sterility check. Must be negative for a valid result

"C3" Denotes organism viability check. Must be positive for a valid result

"C4" Denotes neutralizer toxicity check. Must be positive for a valid result

**COMMENT:**

The test sample **passed** the requirement under the TGA Disinfectant Test, Option B when tested using 1:20 dilution.


**Notes:**

1. Strains of Organisms used were as follows

<b>Organism</b>	<b>AMS Culture No.</b>	<b>NCTC No.</b>
<i>Staphylococcus aureus</i>	AMS 028	NCTC 4163
<i>Escherichia coli</i>	AMS 007	NCTC 8196
<i>Pseudomonas aeruginosa</i>	AMS 018	NCTC 6749
<i>Proteus vulgaris</i>	AMS 016	NCTC 4635

2. Results of controls conform to expected outcome

**Signed:**



Imtiaz Ahmed B.Sc(Hons), M.Phil., MASM  
Manager, Sterile Product Testing Laboratory