

Certificate of Analysis

Dated: 29/06/2012

CLIENT: Hydro Ecotech Pty Ltd Unit 12, 2A Killara Avenue Killara NSW 2071	REF NO: 1208615
ATTN: Stephen Kwan	ORDER NO: Not Given
SAMPLE DESCRIPTION: 1 x Alkaline Iodised Water	DATE RECEIVED : 15/06/12
	DATE COMMENCED : 25/06/12

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

METHOD: TMD-110-04

CONDITIONS:

Test organisms:	1. <i>Salmonella choleraesuis</i> ATCC 10708
	2. <i>Escherichia coli</i> ATCC 8196
	3. <i>Clostridium perfringens</i> ATCC 13124
Test Concentration:	Neat
Contact Time:	30 seconds
Neutraliser:	T6 1:10
Test Temperature:	Ambient

RESULTS:

Table 1: Surviving organisms after exposure to Alkaline Iodised Water.

Contact Time	<i>Escherichia coli</i>		<i>Sal. Choleraesuis</i>		<i>CL Perfringens</i>	
	CFU/mL (Log ₁₀)	Log Red.	CFU/mL (Log ₁₀)	Log Red.	CFU/mL (Log ₁₀)	Log Red.
30 sec.	<10 (Log 1.00)	>3.75	<10 (Log 1.00)	>3.71	1.7x10 ² (Log 2.23)	1.85
Inoculum level	5.6x10 ⁴ (Log 4.75)		5.1x10 ⁴ (Log 4.71)		1.2x10 ⁴ (Log 4.08)	

CFU = Colony Forming Unit

COMMENTS:

The sample "**Alkaline Iodised Water**" has shown antimicrobial activity against *Escherichia coli* and *Salmonella choleraesuis* by achieving greater than 3 log reductions while failed to show antimicrobial activity against *Clostridium perfringens* by showing only 1.85 log reductions when tested under conditions described above.

Signed: 
Imtiaz Ahmed
Sterile Products Testing Manager