

Certificate of Analysis
Dated: 27/10/2014

CLIENT: SDI International
33-37 Villas Road
Dandenong South. VIC. 3175

OUR REF: 1420517

ATTN: Robert White

ORDER NO: N/A

SAMPLE DESCRIPTION:
1 x 750mL Disinfectant Spray -Ridov
(2011247875)

DATE RECEIVED: 16/10/14

DATE COMMENCED: 20/10/14

EXAMINATION: JIS Z 2801: 2000E

METHOD:

Surface templates (laminates 50 x 50 mm) were sterilised by autoclaving. Sterile templates were then sprayed with the sample under test, sprayed sample were then spread using sterile swab sticks and allowed to dry for 24hours. Control- Untreated and Treated surfaces were inoculated with the 0.6mL of challenge organism, approximately ($2.5 - 10 \times 10^5$ cells / mL); inoculated surfaces were the covered with sterile film (40x 40mm). Test was done in triplicate.

Initial inoculum counts were performed on the untreated surfaces by serial dilution and plating out. Immediate effect on the treated surfaces was also performed by assaying the surviving challenge organisms through serial dilution and plating out.

CONDITIONS:

Challenge organism: *Escherichia coli* ATCC 8739

Temperature: $20 \pm 0.5^\circ\text{C}$

Neutraliser: T6 20mL

Dilution: 1 spray / surface template

Soil: Clean

Time Point: Day 0 and 24hour

RESULTS:

Table 1: Surviving *E.coli* on treated carriers after immediate effect and 24 hours contact time.

Challenge organism:		<i>Escherichia coli</i> ATCC 8739				
Specimen:	Test condition	CFU / mL				Condition of a valid test
	Temp. / incubation	Replicate 1	Replicate 2	Replicate 3	Mean	
Control	immediately after inoculation	4.4 x10 ⁵	3.4 x10 ⁵	5.0 x10 ⁵	4.3 x10 ⁵	≤ 0.2
Log value		5.64	5.53	5.70	5.63	= 0.03
Control	after 24hrs ± 1hr incubation @ 37°C	3.4 x10 ⁴	7.2 x10 ⁴	7.2 x10 ⁴		-
Log value		4.53	4.86	4.86	4.75	-
Treated	immediately after inoculation	7.8 x10 ⁴	3.2 x10 ³	1.6 x10 ⁵		Log reduction
Log value		4.89	3.51	5.20	4.53	1.10
Treated	after 24hrs ± 1hr incubation @ 37°C	< 20	< 20	< 20		Log reduction
Log value		1.30	1.30	1.30	1.30	3.45

FINAL RESULTS:

The sample "Ridov Disinfectant" shows residual bactericidal efficacy against *Escherichia coli* by achieving 1.10 log reduction (approximately 99% kill) immediately after inoculation and 3.45 log reduction (99.9% kill) after 24 hours contact time on treated surfaces.

Signed:

Imtiaz Ahmed 
Sterile Products Testing Manager