



EFFICIENCY TEST REPORT OF **“RELYON” Chlorine Dioxide**

M/S. PROPHYLAXIS (3114)
U-12, Bombay Market, Umarwada,
Surat – 395010, Gujarat (India)

Prepared by
SGS LANKA (PVT) LTD

18th October 2011



EFFICIENCY TEST REPORT OF RELYON – ClO₂

1. Company Name : M/S. PROPHYLAXIS (3114)
2. Address : U-12, Bombay Market, Umarwada,
Surat – 395010, Gujarat (India)
3. Type of Product : Sanitizer / Drinking Water Disinfectant
4. Description of the sample: “RELYON” A
Batch No.: 130610017525
Mfg. date: June 2010
Exp. Date: May 2012
Quantity: 25ml
“RELYON” B
Batch No.: 130610017525
Mfg. date: June 2010
Exp. Date: May 2012
Quantity: 25ml

5. Test Started Date : 05.10.2011

6. Test Completed Date : 18.10.2011

7. Methodology

Test Method: ISO 7251 E. coli detection, ISO 4831 Coliform detection.

- (1) Prepare solution according to manufacturer's instruction.
- (2) Add different amount of solution (0.01 TO 0.1 ml) to 1000 ml of drinking water in different bottles.
- (3) Spike the Water Sample with Standard Enterobacter aerogenes (ATCC13048) and Escherichia coli (ATCC25922) & Keep it for 1 Hour.
- (4) After that remove 100 ml of water from the bottle and inoculate it into Mac Conky broth.



(5) Also keep drinking water blank along with sample.

(6) Keep it at 37 °C for 24 – 48 hours.

(7) Observe for acid & gas production.

8. Type of Bacterial Cultures Used

- Coliform Group of Bacteria (Enterobacter aerogenes ATCC13048 and Escherichia coli ATCC25922.

9. Total Bacterial Count of spike water was 900 to 1000cfu/ 100ml

10. Analytical Results

- Reduction of Coliforms Bacteria

SR. NO.	PARAMETER	UNIT	RESULT			
			0.01ml\1000 ml	0.02ml\1000 ml	0.03ml\1000 ml	0.04ml\1000 ml
1	Coliform / E.coli Organisms	Per 100 ml	Detected	Not Detected	Not Detected	Not Detected

SR. NO.	PARAMETER	UNIT	RESULT			
			0.05ml\1000 ml	0.08ml\1000 ml	0.09ml\1000 ml	0.1ml\1000 ml
1	Coliform / E.coli Organisms	Per 100 ml	Not Detected	Not Detected	Not Detected	Not Detected

Observation : As per above experiment, 0.02 ml RELYON [Chlorine Dioxide] is sufficient to inhibit coliform /E.coli organisms per 1000 ml of water sample and seems to be an effective product for sanitation purpose



SGS LANKA (PVT) LTD.

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 Manager - Laboratory