



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

P.B.No.3205, 13/37, Avinashi Road, Aerodrome P.O., Coimbatore - 641 014, INDIA

Ph: (0422) 2574367-9, 6544188, 4215333

Fax : (0422) 2571896, 4215300

E-mail : info@sitra.org.in

Website : http://www.sitra.org.in

Address all correspondence to the Director

Centre of Excellence for Medical Textiles Biotechnology Laboratory

XXVII/16
19009

Biotechnology laboratory
29/July/2016

TEST REPORT

To,
M/s. General Surgical Company (India) Pvt. Ltd,
Biologics Division, Old No. 73, New No 2, 'S' Block,
18th Street, Anna Nagar, Chennai – 600 040
REF No. : Nil
Date of performance: 23.06.16-27.06.16

Sample : Liquid
Received on : 27.04.16
No .of Samples : 1
Total No. of Pages : 2
Despatched no :

TEST RESULTS

Sample No.	BT 98
Sample Name	0.5% Disinfectant

Details of *in vitro* cytotoxicity

1. Cell culture

Source of cell line : NCCS

Justification : L929 is an established and well-characterized cell line that has demonstrated reproducible results.

Culture medium : Minimum essential medium supplemented with foetal bovine serum

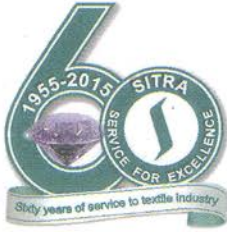
2. Test details

Assay method and Rationale : MTT assay
(As requested by the customer)
Test sample preparation : None



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M/s. General Surgical Company (India) Pvt. Ltd dated on 27.04.2016

3. Test procedure

An *in vitro* cytotoxicity test method was performed for the given test sample as per ISO 10993:5. The culture medium from the L929 monolayer was replaced with fresh medium. Test sample in triplicates were added on the cells. After incubation at $37\pm 1^\circ\text{C}$ for 18 hrs, MTT were added in all the wells and incubated for 4 hrs. After incubation, DMSO were added in the wells and read at 570 nm using photometer. Cytotoxicity and cell viability were calculated by below formula.

$$\text{Cytotoxicity} = \frac{[(\text{Control} - \text{Treated}) / \text{Control}] * 100}{1}$$

$$\text{Cell viability} = \frac{(\text{Treated} / \text{Control}) * 100}{1}$$

4. Observation

Sample code	Sample Particulars	Cytotoxicity (%)	Cell viability (%)	Cytotoxic reactivity
BT 98	0.5% Disinfectant (5 μ l)	16.4	83.5	None
	0.5% Disinfectant (25 μ l)	67.0	40.0	Mild
	0.5% Disinfectant (50 μ l)	84.6	15.3	Moderate

5. Result

As per ISO 10993:5 the test sample 0.5% Disinfectant showed none(5 μ l) to moderate cytotoxic reactivity to L929 cells after 24hr contact. Control gave none cytotoxic reactivity as expected.



IMPORTANT

Ketan
(Head - CoE Medical Textiles)

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