

## Test Report

### *Toxicity testing of a material extract, Cytotoxicity Test*

Test report number: ISO 201708-02241A\_engl

commissioned by:

W.R. Lang GmbH  
Hafenstraße 83  
D-56564 Neuwied, GERMANY

CYTOX  
biological testing of medical devices  
Gottlieb-Keim-Straße 60  
D-95448 Bayreuth, Germany  
tel. +49-921-1511-254  
fax +49-921-1511-255  
mobile +49-179-5102577  
info@cytox.de  
www.cyttox.de

Test material:

Sep 11<sup>th</sup> 2017

EVA-plastic „LaNe<sup>®</sup> EVA SKIN“

Test material received: Aug 16<sup>th</sup> 2017

Test performed: Sep 05<sup>th</sup> 2017

**Result:    The EVA-plastic „LaNe<sup>®</sup> EVA SKIN“  
                 did not cause a cytotoxic effect.**

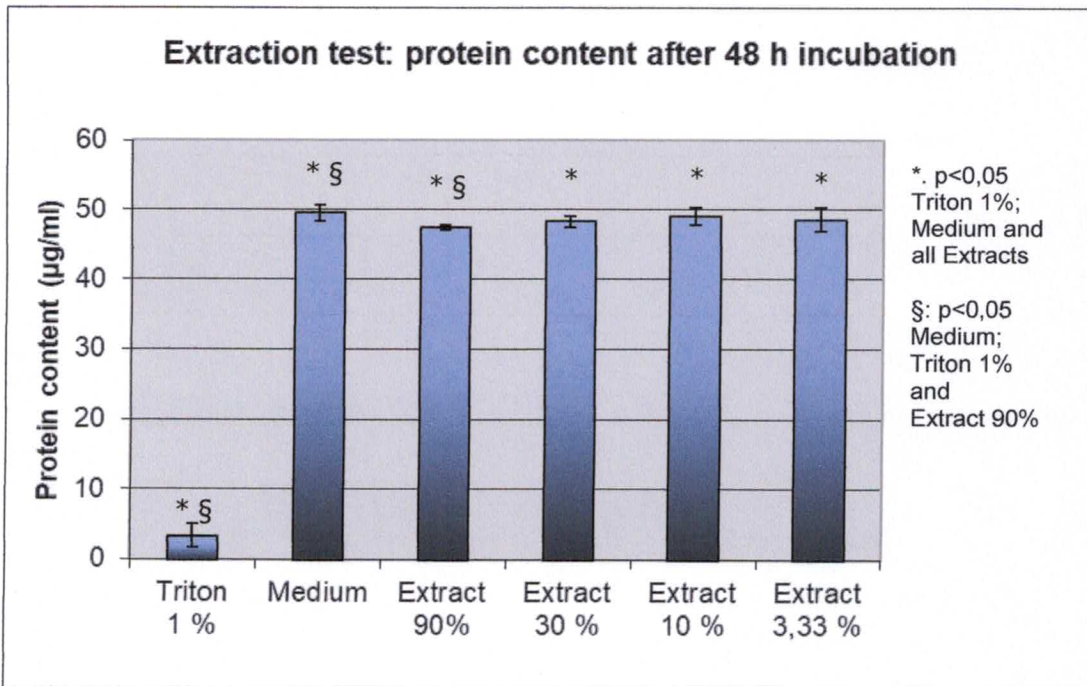
Description of the test procedure:

Normative References: ISO 10993-5 (2009); ISO 10993-12 (2012)

The material was extracted for 24 h at 37°C and a partial pressure of 5 % carbon dioxide in extraction medium (DMEM medium with antibiotics, without fetal calf serum [FCS]). The material /extraction volume ratio was 0,2 g/cm<sup>2</sup> per ml extraction medium. After extraction the extraction medium was sterile filtered and supplemented with sterile FCS (concentration of FCS in extraction medium: 10 %). The FCS-supplemented extraction medium was pipetted under sterile conditions on precultivated cells of the mouse fibroblastic cell line L929 and incubated for 48 h at 37°C and a partial pressure of 5 % carbon dioxide. The extract was tested in four dilutions (90 %, 30 %, 10 % and 3,3 %). Each dilution was tested in four parallel experiments.

Triton X 100 was used as a toxic control substance (concentration in the experiment: 1 % v/v). Cell culture medium was used as a non-toxic control. After the 48 h incubation period the protein content of the cell culture was determined by the method according to Bradford.

Results:



Result data µg/ml	Protein content n=4					
	Triton 1 %	Culture medium	Extract 90 %	Extract 30 %	Extract 10 %	Extract 3,3 %
Mean	3,41	49,55	47,54	48,30	49,03	48,58
Standarddev.	1,72	1,22	0,35	0,79	1,24	1,72

In the presence of Triton X 100 in the cell culture medium 6,9 % of the protein content compared to the negative control was reached. This value is within the valid range of 15 % protein content or less compared to the negative control.

Materials are considered cytotoxic, if the material extract leads to a protein content of the test cells of less than 70 % compared to the negative control. This was not the case in this test. The material did not cause a cytotoxic effect.

**Result:**      **The EVA-plastic „LaNe® EVA SKIN“  
did not cause a cytotoxic effect.**

Explanatory notes:

none

Test performed by: *Dr. D. Scheddin*

authorized by: *Dr. D. Scheddin*  
( Dr. D. Scheddin / CEO CYTOX)

It is not allowed to publish only parts of this test report without written approval of CYTOX.