



Test Report

Toxicity testing of a material extract, Cytotoxicity Test

Test report number: ISO 202206-03404_engl

commissioned by:

R & G Faserverbundwerkstoffe GmbH
Postfach 1145
D-71107 Waldenbuch, 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:

Jul 06th 2022

Cold-curing, solvent-free 2C epoxy system:
R & G Epoxy resin HT2, batch no. 2471074 and
R & G Hardener HT2, batch no. 2024012

Test material received: Jun 24th 2022

Test performed: Jul 04th 2022

<p><u>Result:</u> The cold-curing, solvent-free 2C epoxy system: R & G Epoxy resin HT2, batch no. 2471074 and R & G Hardener HT2, batch no. 2024012 did not cause a cytotoxic effect.</p>
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Description of the test procedure:

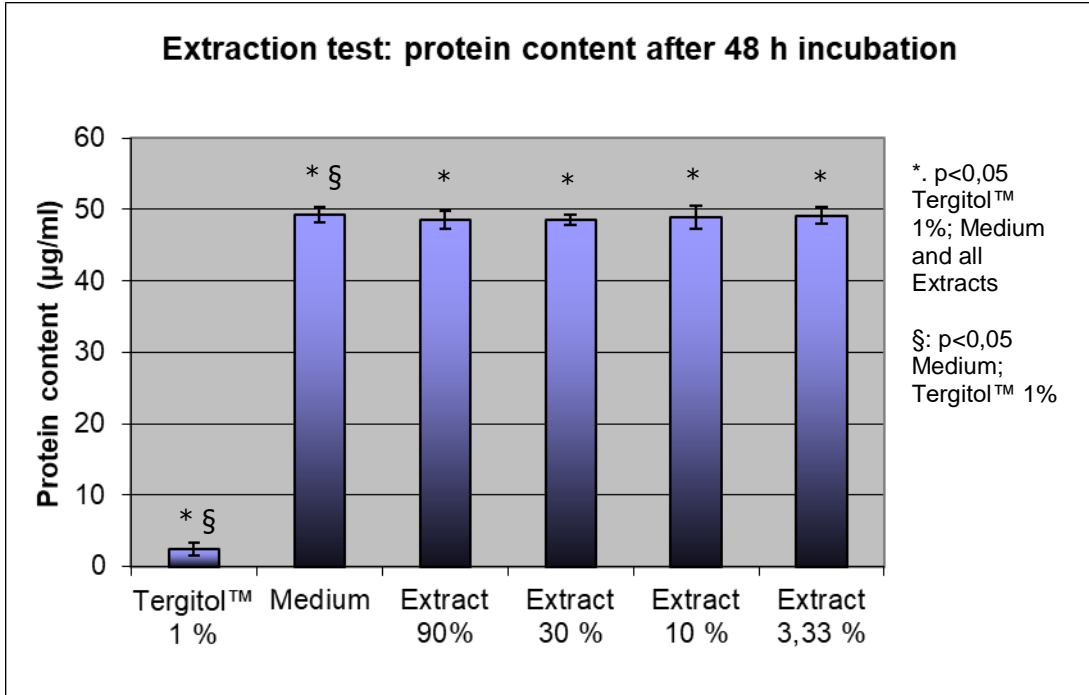
Normative References: ISO 10993-5 (2009), ISO 10993-1 (2021); ISO 10993-12 (2021)

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 surface / extraction volume ratio was 3 cm²/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.

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Tergitol™ 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	2,44	49,21	48,62	48,52	48,97	49,11
Standarddev.	0,83	1,07	1,28	0,76	1,60	1,16

In the presence of Tergitol™ in the cell culture medium 5,0 % 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 extract did not show a cytotoxic effect.

**Result: The cold-curing, solvent-free 2C epoxy system:
R & G Epoxy resin HT2, batch no. 2471074 and
R & G Hardener HT2, batch no. 2024012
did not cause a cytotoxic effect.**

Explanatory notes:

none

Test performed by: _____

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

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