

BioPharma Product Testing Test Report

Page 1 of 2 Analytical Report: AAM70831 Eurofins Sample Number: LV21AA1034-1 Version: 2





LAB Nº 0032 L

Client Account Number: A00963855DQX Eurofins Quote Number: PO9YPH21001801

Eurofins Sample Number LV21	AA1034-1	
Original Received Date: Description: Lot Number:	20-Jan-2021 § BMP30-NWF-S § 1	SB + PhotoACTIVE® TEX
Analysis	Result	Unit
# Citotossicità in vitro/In vitro cy	totoxicity	
RESULT:	Not cytotoxic	
Test item:	30mm ²	
Vehicle:	Routine medium	
Positive control:	30mm ² of Latex	
Negative control:	30mm ² of HDPE	
Notes:	N/A	
Addendum #1: Qualitative and o	quantitative evaluation	

Analysis Date: 01-Feb-2021 to 03-Feb-2021



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Page 2 of 2 Analytical Report: AAM70831 Eurofins Sample Number: LV21AA1034-1 Version: 2





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Supplemental Information

Analytical Report Version 2 Comment: The present test report LV21AA1034-1 Vers 2 supersedes the test report LV21AA1034-1 Vers 1 in order to modify the name of the sample, as requested by the Sponsor.

Sample description: white cloth

Storage: room temperature

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Contracted Company: Eurofins Biolab Srl (Vimodrone)

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eur	ofins	In vitro cytot	oxicity ISO10993-5:2009	1-P-QM-TEM-9070229
60		Test by D	Direct Contact - NRU	Addendum N. 1
Study ID:	11		Sample ID:	LV21AA1034-1
Test start:	01/02/2021	I	Test end:	03/02/2021
	Cell line		Manufac	cturer
Mammal fibroblasts E	BALB/3T3 clone A31 (A	TCC® CCL163™)	American Type Culture	e Collection (ATCC)
	Reagent		Manufacturer	Batch
Dulbecco's Me	odified Eagle Medi	um (DMEM)	Lonza	0000920735
Fetal	Bovine Serum (FE	S)	Sigma-Aldrich	20C567
Penicill	in/Streptomycin so	ution	Sigma-Aldrich	0000088375

QUALITATIVE EVALUATION

	Contac	ct time:	24	h		Conta	ct time:	24	h
		PLA	TE 1				PLA	TE 2	
	Blank	Vehicle control	Negative control	Test Sample		Blank	Vehicle control	Positive control	Test Sample
Replicate 1		0	0	0	Replicate 1		0	4	0
Replicate 2		0	0	0	Replicate 2		0	4	0
Replicate 3		0	0	0	Replicate 3		0	4	0

INTERPRETATION OF RESULT

Grade	Reactivity	Conditions of all Cultures
0	None	No detectable zone around or under specimen
1	Slight	Some malformed or degenerated cells under specimen
2	Mild	Zone limited to area under specimen
3	Moderate	Zone extending specimen size up to 1.0 cm
4	Severe	Zone extending farther than 1.0 cm beyond specimen

ACCEPTANCE CRITERIA

Negative	control	Positive cont
Grade ≤1	VALID	Grade ≥3

Positiv	e control
Grade ≥3	VALID

RESULTS

	Reactivity grade
Test Sample	0

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seur	ofins	In vitro cytotoxicity ISO10993-5:2009	1-P-QM-TEM-907	70229
00		Test by Direct Contact - NRU	Addendum N.	1
Study ID:	//	Sample ID:	LV21AA1034	4-1

01/02/2021

Test start:

Test end:

03/02/2021

QUANTITATIVE EVALUATION - 540 nm

	Contac	t time:	24	h		Contac	ct time:	24	h
		PLA	TE 1				PLA	TE 2	
	Blank	Vehicle control	Negative control	Test Sample		Blank	Vehicle control	Positive control	Test Sample
Replicate 1	0,051	1,131	1,117	1,100	Replicate 1	0,049	1,100	0,046	1,107
Replicate 2	0,052	1,116	1,096	1,103	Replicate 2	0,051	1,110	0,049	1,170
Replicate 3	0,045	1,154	1,164	1,195	Replicate 3	0,050	1,153	0,044	1,174

MEAN, STANDARD DEVIATION, CV% AND VIABILITY

	Mean OD	Standard Deviation	CV %	Mean - Mean OD OD Blanks	Viability %
Blanks	0,050				
Vehicle control	1,127	0,023	2,007	1,078	100
Negative control	1,126	0,035	3,093	1,076	100
Positive control	0,046	0,003	5,432	-0,003	0
Test Sample	1,142	0,043	3,743	1,092	101

ACCEPTANCE CRITERIA

	Vehicle ≥ 0,3	
Mean OD	VALID	
	Negative control ≥ 70%	Positive Control < 70%
Quantitative Evaluation	VALID	VALID

	Vehicle control	Negative control	Positive control	Test Sample
CV between replicates ≤15%	VALID	VALID	VALID	VALID

$$\% viability = \frac{OD_{mean}}{OD_{mean}} - OD_{mean} \\ \frac{OD_{mean}}{OD_{mean}} - OD_{mean} \\ \frac{OD_{mean}}{Vehicle} - OD_{mean} \\ \frac{OD_{mean}}{Vehicle} + OD_{mean} \\ \frac{OD_{mean$$

INTERPRETATION OF RESULTS

Reduction of Viability	Result
≤ 30%	Not Cytotoxic
> 30%	Cytotoxic

RESULTS

		Re	duction Viability %]				
	Test Sample		0	ΝΟΤ CYTOTOXIC				
		*0 (% viability test ite	m ≥ vehicle); 100 (% viability test item ≤ Blank)	4		1		
Finished	on: 03/02/21		Technician signature: 📈	2				
Date:	04/02/21		Approved by: EB					
	Rev.8		Local Reference: Mod. PS/	/TOX/020.D	Deres	~		
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	eurofins	Medical Devi Testing	ice Eurofins	t Facility Biolab S.r.l.	Sample ID: Page:	LV21AA1034-1 1 of 1	
		Addei	NDUM N.2: EXPE	RIMENTAL REPO	RT		
REFE	RENCE/GUIDELINE:	ISO 10993-5:2009	- In vitro cytotoxicit	у			
CELL	LINE	Mammal fibroblasts	BALB/3T3 clone	A31 (ATCC®; CCL1	63™) Source: ATCC.		
		Fetal Bovine Serun Penicillin/Streptomy (DPBS)	Fetal Bovine Serum (FBS), Neutral Red dye, Trypan Blue, Penicillin/Streptomycin solution, Dulbecco's Phosphate buffer solution (DPBS)				
		Dulbecco's Modifica	ation of Eagle's Me	edium (DMEM), Tryp	sin-EDTA	Lonza	
		Acetic Acid, Ethanc	ol solution			VWR	
MAT	ERIALS	Water for Injection				Eurospital	
		High density polyet	hylene (HDPE, US	P Reference Standa	rd negative control)	Nova Chimica (lot.K0M357)	
		Latex from laborato	ory gloves			Artsana (lot.1811191C170)	
Εουι	PMENT	Laminar flow hood laboratory equipm	, CO ₂ incubator, M ent, Water, Inverte	icroplate reader Mo ed Microscope Diave	d EL800, Chronometert,Orbital shaker, Ref	er, Common rigerator	
EXPE	RIMENTAL DESIGN						
The e	experimental design in	cluded two 12-well plate	uded two 12-well plate containing a subconfluent cell monolayer subdivided in the		iver subdivided in the	following groups:	
	Blank	Blank	Blank	Blank	REPLICATES PLAT	Blank	
NPS	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	
RO	Negative control	Negative control	Jegative control	Positive contro	Positive control	Positive control	
	Test sample	Test sample	Test sample	Test sample	Test sample	Test sample	
	r oot campie	Supplemented cult	ire medium alone (without cells)	l	reereample	
VEHIC	1 F	Supplemented cult	ire medium (withou	it test sample)			
TEST	SAMPI F	30 mm ² of the test	sample were place	d in the middle of ea	ich well		
NEGA		The negative contro	ol was represented	by 30 mm² of HDPE	placed in the middle	of each well.	
POSIT	IVE CONTROL	The positive control	was represented 3	30 mm ² of latex plac	ed in the middle of ead	ch well.	
TREA suppl CO ₂ a	TMENT: Verified that a emented culture medi atmosphere for 24 hou	subconfluent monolaye um and the test sample urs. This procedure was	er was present, sup was added. The p repeated for vehic	oplemented culture r plates were incubate le, negative and po	nedium was replaced d in a thermostat at (3 sitive controls.	with 1mL of fresh 7 ± 1)°C in (5±1)%	
QUAL biolog QUAN at (37 The p minut softw	ITATIVE EVALUATION gical reactions were ev ITITATIVE EVALUATION T ± 1)°C in (5±1)% CO plates were totally mac les at room temperatu are (Biotek) using mic	(GRADE OF CYTOTOXIC raluated following a 0 to (OPTICAL DENSITY): A atmosphere. Subsequ le dry reversing the plat re with gentle agitation rotiter plate reader.	CITY): After 24 hou 4 scale according fter microscopic ob iently, the Neutral F ies, then Desorb So to form a homogen	Its the plates were to ISO10993-5:2009 servation, cells were Red medium was rep olution was added an leous solution. Optic	observed under an in 9. e treated with Neutral I moved and each well v nd the plates were incu al density was measu	verted microscope and Red Medium for 3 hours was rinsed with DPBS. Jbated for at least 15 red at 540nm by Gen5	
		% of cell v	viability = $\frac{OD \text{ test}}{OD \text{ v}}$	sample - OD blank ehicle - ODblank	- • 100		
		QUALITATIVE EVALU	ATION	Negative control	\leq 1; Positive control \geq 3	3	
		QUANTITATIVE EVALUATION		The positive control % cellular viability must be < 70%. The negative control % cellular viability must be < 70%. Coefficient of variation of each group must be \leq 15%.			
ACCE		QUANTITATIVE EVAL	UATION	The negative con Coefficient of vari	ation of each group m	ust be ≤15%.	
ACCE	PRETATION OF	The achievement	of a numerical grac	The negative con Coefficient of vari	ation of each group m	effect.	
ACCE	PRETATION OF	The achievement A cellular viability	of a numerical grac reduction more tha	The negative con Coefficient of vari de greater than 2 is of an 30% is considered	ation of each group m considered a cytotoxic d a cytotoxic effect.	ust be ≤15%. effect.	

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Reviewed and electronically signed for Technical Supervisor Approval by Elena Bizzotto, Employee for Eurofins Biolab Srl, on 18-Feb-2021 15:47:57 UTC+01:00