



Re: Guardian Disinfecting Solution

We hereby confirm that Guardian Disinfecting Solution have been tested against vaccinia virus and found effective. The test also covers Corona virus.

2019 nCoV belongs to the group of enveloped viruses and is consistently covered by an activity claim against all enveloped viruses in a quantitative suspension test according to **EN 14476**, where the reference test virus is vaccinia virus.

Sincerely,
Helle Stendahl Andersen
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Date
04 June 2012
Our ref.
944006, part 1/SLH

Analytical report

Sample received	Test sample
10 April 2012	Science Guardian

Customer's journal no/ project title:


-

Label(s): Batch no. 35021202


Information from client: -

Methods:	Specific references are listed with the test results.
Test:	Vaccinia virus (HIV SURROGATE)
Results:	Results are reported on page 2-14.
Comments:	Samples are analysed by the laboratory: Eurofins Biolab, Italy

Signatures



Sandy Leth
MSc (Pharm)

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Final report 2012/667 AMi

SUSPENSION VIRUCIDAL EFFECTIVENESS AGAINST *Vaccinia virus* (HIV SURROGATE) ON SCIENCE GUARDIAN

Study Program No: 2012/667 AM


Contract No: PPR12012010105

Sponsor: EUROFINS PHARMA A/S
 STRANDEPLANADEN 110
 DK-2655 VALLENSBAEK STRAND
 DENMARK

Test substance: SCIENCE GUARDIAN



04. Jun. 2012

Director of the Study: 
 (Laura Brambilla)


Released on: 11/07/28th 2012

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 CIT005 4-385

 eurofins <small>bio lab</small>	Test Facility Certification M.S. 121/2010	Report No.: 2012/667 AMI Version: English Page: 2 of 11 Print date: 28-May-12
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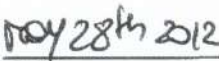
COMPLIANCE WITH GOOD LABORATORY PRACTICE

I the undersigned declare that the studies described in this report have been conducted under my supervision and in compliance with the following standards of Good Laboratory Practice:

- OECD Series on Principles of Good Laboratory Practice and Compliance Monitoring - OECD principles of Good Laboratory Practice (as revised in 1997) – Environment Directorate – Organisation for Economic Co- Operation and Development , Paris 1998.
- Legislative decree n. 50 of March the 2nd, 2007. Enforcement of Community Directives 2004/9/CE e 2004/10/CE, concerning the inspection and verification of Good Laboratory Practice and the drawing of the legislative, regulatory and administrative dispositions relative to the application of Good Laboratory Practice rules, to the control of their application on the assays performed on the chemical substances (GU n.86 of April the 13th, 2007).
- United States Food and Drug Administration, Title 21 Code of Federal Regulations Part 58, Federal Register 22 December 1978, and subsequent amendments.
- Decree of the Italian Ministry of Health October the 12th 2010, certification N. 121/2010 authorizing Eurofins Biolab S.r.l. to perform analyses in compliance with the principles of good laboratory practices (<http://www.eurofins.it>).

There were no circumstances that may affect the quality or integrity of the study.


STUDY DIRECTOR
(Laura Brambilla)


DATE

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QUALITY ASSURANCE STATEMENT


The study was assessed for compliance with the approved study program and the Standard Operating Procedures of Eurofins Biolab Srl.

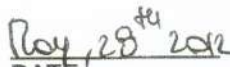
The study and/or the test facility were periodically inspected by the Quality Assurance unit according to the corresponding SOPs. These inspections and audit were carried out by the Quality Assurance unit, personnel independent of staff involved in the study.

The undersigned hereby certifies the dates on which the inspections have been carried out and reported to the Director of the Study and to Eurofins Biolab's S.r.l. Management:

PHASE OF STUDY	DATE OF INSPECTION / REPORTING
Pre-experimental period	//
Experimental period	//
Post-experimental period	//
Documentation: - Study program - Raw data - Final report	April, 30 th 2012 May, 28 th 2012 May, 28 th 2012

This report accurately reflects the raw data.


GLP QUALITY ASSURANCE
(Monica Rossetti)


DATE

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SUMMARY

A series of assays were performed on the test substance SCIENCE GUARDIAN to determine the suspension virucidal effectiveness against *Vaccinia virus (HIV SURROGATE)* for the specific uses provided for the product.

To this purpose the following test was performed:

- **Virucidal activity. Suspension test** in which a viral suspension, *Vaccinia virus Strain WR ATCC VR-119*, were incubated with the test substance in the following conditions test:
 - concentration: neat (90% maximum concentration which can be tested)
 - contact time: 30 minutes
 - interfering substance: none
 - Neutralizer: Medium culture (EMEM) + FBS 5%

After the incubation time, viral suspensions were inoculated in the appropriate cellular monolayer of VERO.

After 3 days, cellular cultures were observed with the inverted microscope for the detection of cytopathic effects (CPE) produced by viral multiplication.

Before checking virucidal activity, following tests to validate the method were performed, in order to verify the compliance to the ASTM E 1052 requirements:

1. CELL CULTURE (medium alone)
2. CYTOTOXICITY CONTROL OF TEST SUBSTANCE (1 part medium + 9 part test substance)
3. VIRUS CONTROL (1 part virus + 9 parts medium)
4. NEUTRALIZATION CONTROL (neutralized test substance + virus)

On the basis of obtained results, in the adopted experimental conditions, the test substance SCIENCE GUARDIAN **causes a reduction of 3.00 Log** against *Vaccinia virus Strain WR ATCC VR-119* with the test concentration after 30 minutes of contact.

See *Experimental Report 2012/667* for more details.

INTRODUCTION

A study was conducted on behalf of EUROFINS PHARMA A/S to demonstrate the suspension virucidal effectiveness against *Vaccinia virus (HIV SURROGATE)*, in accordance with ASTM E 1052 – 11 and Sponsor requirements.

The study was performed at the Test Facility Eurofins Biolab S.r.l. of Vimodrone (MI) – via B. Buoizzi n. 2 (Italy).

EXPERIMENTATION	START	END	RESEARCHER
Virucidal activity – suspension test	May 07 th 2012	May 10 th 2012	C. Meroni

In this report:

- doses are expressed as grams of the test substance per 100 millilitres of water (%)
- the virus titres are expressed as TCID₅₀: 50% infecting dose of a virus suspension or that dilution of the virus suspension that induce a CPE in 50% of cell culture units.

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TERMS AND DEFINITIONS

Virucidal: a chemical agent or a formulation that inactivates viruses under certain conditions.

Virucidal activity: the capability of a product to produce a reduction in the number of viruses under certain conditions.

REFERENCES

ASTM E 1052 – 11: Standard Test Method to assess the activity of microbicides against viruses in suspension.

FILING

The study program, all raw data are filed in the archives of Eurofins Biolab S.r.L for ten years after the issuing of the final report.

No retained sample will be not kept because the Sponsor did not provided stability information and because it consists in an aliquot of the study 2012/665 AM.

At the end of the conservation period, the Sponsor may request an extension of the conservation of all or part of the products for a further period, or their restitution. A suitable agreement shall be drafted in this case.

PROCEDURES

All procedures used during this study are recorded in the Eurofins Biolab S.r.L Procedures Manual.

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TEST PRODUCT

The test product is an antiseptic (ready-to-use solution).

Product	SCIENCE GUARDIAN
Stability	Not provided
Composition on safety data sheet	Preparation containing an aqueous solution of cationic polymer and surfactant

ANALYSED SAMPLE

The analysed sample, representative of the test substance, consists in an aliquot of the sample of the study 2012/665 AM that was a transparent colourless liquid contained into a white plastic jar.

Batch	3502/202
Manufacturing date	Not provided
Expiry date	Not provided
CoA	Not provided
Receiving	EUITVI-24992
Date	Apr 11th 2012
#ID	12.955-S

The characterisation of the test product is under Sponsor's responsibility

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Experimental Report 2012/667 - VIRUCIDAL ACTIVITY AGAINST VACCINIA VIRUS (HIV SURROGATE) – SUSPENSION TEST (ASTM E 1052 – 11)

EXPERIMENTAL PROCEDURE

1. ASSAY SYSTEM

Virus

Vaccinia virus Strain WR

ATCC VR-119

The viral suspensions were kept frozen at $\leq -70^{\circ}\text{C}$; before their use they were multiplied in the appropriate cellular line, as shown following:

VIRUS STRAINS	HOST CELL LINE	INCUBATION TIME (Days)	INCUBATION TEMPERATURE
<i>Vaccinia virus Strain WR</i>	Vero	3	$37 \pm 1^{\circ}\text{C}$ (CO ₂ 5%)

Cellular debris were removed by means of double centrifugation at low speed, and the supernatant containing the virus was used for the test.

2. CELL LINES, MEDIA AND REAGENTS

Cellular cultures

VERO

ATCC CCL-81

The cellular culture was kept frozen at $\leq -70^{\circ}\text{C}$; before viral inoculum, it showed itself as confluent monolayer.

Culture Medium and reagent

EMEM: Eagle's minimal essential medium
FBS (2%) Foetal Bovine Serum
PEN-STREP (1%) antibiotics
WFI Water for injection
PBS Phosphate Buffer Saline

BIOWHITTAKER - LONZA
BIOWHITTAKER - LONZA
BIOWHITTAKER - LONZA
EUROSPITAL
BIOWHITTAKER - LONZA

3. EQUIPMENT AND MATERIALS

Incubator
Centrifuge
Deepfreeze
CO₂ incubator
Vortex
Chronometer
Micropipettes
Microdishes 96 wells
Inverted microscope
pHmeter
Vessel containing water and ice
Water bath

ARBORE
HERAEUS
Angelantoni Scientifica
PBI
VELP
ARBORE
GILSON
LONZA
LEITZ
BECKMAN

ARBORE

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4. EXPERIMENTAL DESIGN

Test temperature

The test was conducted at 22°C ±2°C.

Test conditions

The test was conducted with the following test conditions:

- final concentration: 90% (maximum concentration which can be tested)
- contact time: 30 minutes

Interfering substance

None.

Neutralizer

Ice-cold Medium culture with 5% FBS.

5. ASSAY EXECUTION

Preparation of the test substance

The test substance was used neat.

Cell control

0.1 ml of Medium culture were transferred in dishes with 96 wells containing the cellular confluent monolayer (>90%) without culture Medium. Each aliquot of Medium was placed onto dishes 4-fold as control of cellular line.

After 1 hour of incubation 0.1ml of culture Medium were added to viral inoculum.

After the incubation period, the cellular culture was observed with inverted microscope to detect any cytopathic effect (CPE) due to viral suspension. After this detection the infecting activity (TCID₅₀ evaluation) was calculated by means of Spearman – Karber method.

Cytotoxicity control

To evaluate any cytopathic effect of the test substance, a cytotoxicity test was conducted by mixing 1 ml of the assay sample with 9 ml of culture Medium. Then serial dilutions 1:1 were performed and 0.1 ml of each dilution of the test substance put on dishes 4-fold.

The outline of the microplate did not receive the viral inoculum and were used as control of cellular line. After 1 hour of incubation 0.1ml of culture Medium were added to each well.

Immediately after the addition of the test substance and daily for 3 days, the cellular culture were observed with inverted microscope to detect any cytopathic effect (CPE) due to test substance.

Virus control

Serial dilutions 1:10 were prepared with culture Medium, starting from virus stock solution of viral suspension (1 part of virus + 9 part of medium culture). 0.1 ml were transferred in dishes with 96 wells containing the cellular confluent monolayer (>90%) without culture Medium. Each dilution of viral suspension was placed onto dishes 4-fold.

The outline of the microplate did not receive the viral inoculum and were used as control of cellular line. After 1 hour of incubation 0.1ml of culture Medium were added to viral inoculum.

In parallel the same test described above, was performed with the neutralize alone instead of the test substance neutralized and also with a control fluid PBS (validation of the neutralization).

After the incubation period, the cellular culture was observed with inverted microscope to detect any cytopathic effect (CPE) due to viral suspension. After this detection the infecting activity (TCID₅₀ evaluation) was calculated by means of Spearman – Karber method.

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Neutralization control

To evaluate the effective neutralization dilution, another cytotoxicity test was conducted by mixing 1 ml of the assay sample with 9 ml of neutralizer (EMEM + 5%FBS). Serial dilutions 1:10 of this test mixture with culture medium were performed; then 0.1 ml of the diluted stock viral suspension (containing 1000-500 infectious units) were added into the neutralized sample and 0.1 ml of each dilution put on dishes with the cellular confluent monolayer (>90%), 4-fold.

The outline of the microplate did not receive the viral inoculum and were used as control of cellular line. After the appropriate incubation period, the cellular culture was observed with inverted microscope to detect any cytopathic effect (CPE) due to viral suspension. After this detection the infecting activity (TCID₅₀ evaluation) was calculated by means of Spearman – Karber method.

Virucidal test

1 ml of viral suspension was mixed with 9 ml of the assay sample and left in contact for the test contact time.

At the end of contact time, 1 ml of the solution was transferred into 4.5 ml of neutralizer (EMEM + 5%FBS) in an iced bath; then serial dilutions 1:10 with culture Medium were performed.

0.1 ml of this solution was put onto dishes in 4-fold in the microplate containing the cellular confluent culture (>90%).

The outline of the microplate did not receive the viral inoculum and were used as control of cellular line. After 1 hour of incubation at 37°C ±1°C 0.1 ml of culture Medium were added to the viral inoculum.

After the appropriate incubation period, the cellular culture was observed with inverted microscope to detect any cytopathic effect (CPE) due to viral suspension. After this detection the infecting activity (TCID₅₀ evaluation) was calculated by means of Spearman – Karber method.

6. CALCULATIONS AND EXPRESSION OF THE RESULTS

Determination of TCID₅₀

The infecting activity was determined by means of Spaerman – Karber method that uses the following formula to calculate the value of TCID₅₀:

$$-\text{Log TCID}_{50} = -(-x_0) - \{[R/100] - 0.5\} \times \text{Log dilution factor}$$

where:

x_0 = Log of the lowest dilution with 100% of positive reaction (CPE)
R = sum (%) of positive cultures

Log TCID₅₀ values are rounded to two significant ciphers. Rounding is automatically performed by excel datasheet.

Evaluation of the virucidal activity


The virucidal activity of the product test solution was performed for each exposure time. The Log reduction was performed by subtracting the logarithmic titre TCID₅₀ at any test point from the logarithmic titre TCID₅₀ of the virus control.

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RESULTS

Cytotoxicity control

The test substance is slightly cytotoxic with the test concentrations adopted. However the level of cytotoxicity didn't affect the evaluation of product efficacy.

Virucidal activity

The results obtained in the adopted experimental conditions are reported at the Attachment #1. The results of Log reduction at the different contact times are reported following and at the Attachment #1:

Virus test	Log reduction
	90%
	30 minutes
Vaccinia virus Strain WR ATCC VR-119	3.00

DEVIATIONS


The study did not undergo deviations compared to the study program.

CONCLUSIONS

On the basis of obtained results, in the adopted experimental conditions, the test substance SCIENCE GUARDIAN **causes a reduction of 3.00 Log** against *Vaccinia virus* Strain WR ATCC VR-119 with the test concentration after 30 minutes of contact.

ATTACHMENTS

ATTACHMENT	TITLE	NUMBER OF PAGES
N.1	RAW DATA: EXPERIMENTATION 2012/667	2

	Standard Test Method to assess the activity of microbicides against viruses in suspension
Mod. PS/MIC/074.C	Norma (Standards): ASTM E1052 – 11
Rev.0	Pagina (Page) 1 / 2

Data inizio (Started on): 07/05/12

ID. studio (ID. Study): 2012/667 AM

ID Campione (ID sample) : 12.955-S

Controllo coltura cellulare (Cell culture control)

Condizioni testate (Test condition)		Diluizione(-Log) (Dilution(-Log))							
		1	2	3	4	5	6	7	8
medium alone	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
Endpoint		0	0	0	0	0	0	0	0

-Log TCID50 -0.50

Citotossicità (Cytotoxicity)

Condizioni testate (Test condition)		Diluizione(-Log) (Dilution(-Log))							
		1	2	3	4	5	6	7	8
SCIENCE GUARDIAN 90.0%	1	4	4	0	0	0	0	0	0
	2	4	3	0	0	0	0	0	0
	3	4	3	1	0	0	0	0	0
	4	4	4	0	0	0	0	0	0
Endpoint		100	100	25	0	0	0	0	0

-Log TCID50 -2.75

Virus Control (Virus control)

Vaccinia virus Strain WR ATCC VR-119

Condizioni testate (Test condition)		Diluizione virale(-Log) (Viral dilution(-Log))							
		1	2	3	4	5	6	7	8
VIRUS CONTROL Vaccinia virus Strain WR ATCC VR-119	1	4	4	4	4	3	2	1	0
	2	4	4	4	4	4	2	0	0
	3	4	4	4	4	4	2	0	0
	4	4	4	4	4	3	0	0	0
Endpoint		100	100	100	100	100	75	25	0

-Log TCID50 -6.50


Sigla tecnico (Technician signature):



Data fine (Finished on): 10/05/12

Sigla Approvazione (Approval signature):

Data (Date): 10/05/12

 eurofins	biolab	Standard Test Method to assess the activity of microbicides against viruses in suspension
Mod. PS/MIC/074.C		Norma (Standards): ASTM E1052 – 11
Rev.0		Pagina (Page) 2 / 2

Data inizio (Started on): 07/05/12

ID. studio (ID. Study): 2012/667 AM

ID Campione (ID sample) : 12.955-S

Controllo neutralizzazione (Neutralization control)
Vaccinia virus Strain WR ATCC VR-119

Condizioni testate (Test condition)		Diluizione virale(-Log) (Viral dilution(-Log))							
		1	2	3	4	5	6	7	8
Control PBS	1	4	4	2	0	0	0	0	0
	2	4	4	2	0	0	0	0	0
	3	4	4	3	1	0	0	0	0
	4	4	4	2	0	0	0	0	0
Endpoint		100	100	100	25	0	0	0	0

-Log TCID50 -3.75

Condizioni testate (Test condition)		Diluizione virale(-Log) (Viral dilution(-Log))							
		1	2	3	4	5	6	7	8
Neutralizer alone EMEM + FBS 5%	1	4	4	1	0	0	0	0	0
	2	4	3	2	0	0	0	0	0
	3	4	4	2	0	0	0	0	0
	4	4	4	2	0	0	0	0	0
Endpoint		100	100	100	0	0	0	0	0

-Log TCID50 -3.50

Condizioni testate (Test condition)		Diluizione virale(-Log) (Viral dilution(-Log))							
		1	2	3	4	5	6	7	8
SCIENCE GUARDIAN 90% EMEM + FBS 5%	1	4	2	1	0	0	0	0	0
	2	4	4	2	0	0	0	0	0
	3	4	3	0	0	0	0	0	0
	4	4	4	2	1	0	0	0	0
Endpoint		100	100	75	25	0	0	0	0

-Log TCID50 -3.50

Test virucida (Virucidal test)
Vaccinia virus Strain WR ATCC VR-119

Condizioni testate (Test condition)		Diluizione virale(-Log) (Viral dilution(-Log))							
		2	3	4	5	6	7	8	9
SCIENCE GUARDIAN 90.0% 30 min None (interfering substance)	1	4	2	0	0	0	0	0	0
	2	4	0	0	0	0	0	0	0
	3	4	3	1	0	0	0	0	0
	4	4	2	0	0	0	0	0	0
Endpoint		100	75	25	0	0	0	0	0

-Log TCID50 -3.50

Reduction 3.00

Sigla tecnico (Technician signature):

Data fine (Finished on): 10/05/12

Sigla Approvazione (Approval signature):

Data (Date): 10/05/12