

REPORT OF ANALYSIS No. 213653/20/JSHR

Client PROMEDIVET SRL STR. LUNGĂ 46/G - SOVATA 545500 SOVATA	Sample description (according to declaration of Client) PROCID Lot: 9 Cantitatea: 500 ml Data expirării: 25.02.2022 Data prelevării: 30.04.2020 Sample without any visible damages
Sample received: 2020-05-08	Order of 2020-05-07 The samples were delivered by Client
Analysis completed: 2020-08-09	
Report dated: 2020-08-09	

Test	Method	Unit	Result
# * Virucidal activity in veterinary area. Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and anti septics used in the veterinary area. Test method and requirements (phase 2, step 1). ¹⁾	UNE-EN 14675:2015		1)

¹⁾ The results of the analysis in attachment No 1 to the report of analysis.

THE END OF THE REPORT

Authorized by: Agnieszka Erber, Cosmetics Microbiology Laboratory Manager

Approved by: Hanna Wachowska, Laboratory Director (Approved with electronic signature)

Laboratory: Tychy 43-100, Goździków 1

The results relate to the analysed samples only. Unless otherwise specified given expanded measurement uncertainty was estimated for the coverage factor $k=2$ at 95% confidence level. Sampling uncertainty has not been taken into consideration. Unless otherwise specified when conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on www.hamilton.com.pl

* Test method accredited; # Test performed by external provider

Page 1 / 1

Form PO-10/02b of 20.01.2020

J.S. HAMILTON POLAND Sp. z o.o.
TESTING LABORATORY

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ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 213653/20/JSHR

A) IDENTIFICATION OF THE SAMPLE:	
Name of the product	PROCID Batch number: Not indicated
Expiration date	Not indicated
The active substance	Glutaral CAS: 111-30-8 and CE: 203-856-5 concentration of active substance 10% (10g active substance at 100g product); active compound : Didecyldimethylammonium chloride CAS: 7173-51-5 and CE 230-525-2 concentration of active substance (3.75 g active substance at 100g product)
B) TEST METHOD :	
Performed in accredited subcontracted partner laboratory: Scope of Accreditation Nr 648/LE1286	UNE-EN 14675: 2015 guideline. Chemical disinfectant and antiseptics. Quantitative suspension test for the evaluation of virucidal activity of chemical disinfectant and antiseptics used in the veterinary area. Test method and requirements (phase 2, step 1). AFNOR.
Testing method	Procedure DESIN-1077
C) EXPERIMENTAL CONDITIONS:	
Assay period	23/06/2020 – 10/07/2020
Product test concentrations (%V/V)	5%, 0,3%, 0,01%
Contact time	30 minutes
Assay temperature	37°C ± 1°C
Titration method	TCID ₅₀ (Tissue culture infective dose 50%)
Solvent of the product used in the assay	Hard water
Aspect of the dilutions of the product	Colourless
Contact temperature	10°C ± 1°C
Procedure to stop product cytotoxicity	Molecular sieving
Procedure to stop product activity	Cooling with ice
Interfering substance	Low dirty conditions in the presence of 3 g/L serum albumin
Identification of the origin of viral strains and number of passes	Bovine Enterovirus type 1 (ATCC VR-248) aliquot: 2017/05/16 passage 2
Cell lines (name, origin, number of passes and culture medium)	MDBK, ref: FTMB; working aliquot 2, passages 17, 19 and 20

Date: 09.08.2020

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ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 213653/20/JSHR**Validation of assay results****Bovine Enterovirus type 1 (ATCC VR-248)**

Title of the viral suspension for the virus control (30 minutes):

- Low dirty conditions.....log 10^{-6.15}
- Cytotoxicity level (5%).....log 10
- ^{-0.5}

Maximum level of virus inactivation detectable (difference between the titre of the viral suspension and the cytotoxicity level):

- Low dirty conditions.....log 10^{-5.65}

Reference test (formaldehyde 1.4%)Cytotoxicity level of formaldehyde 0.7%.....log 10^{-0.5}Viral quantification in the reference test (formaldehyde) after 30 minutes and with Bovine Enterovirus type 1.....log10^{-3.49}**Confidence interval**

Title of virus with 95% confidence interval with Bovine Enterovirus type 1 (ATCC VR-248) (30 minutes):

- Low dirty conditionslog 10^{-6.15 ± 0.43}

Reduction with the confidence interval of 95 %See table 1.

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ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 213653/20/JSHR**Sensitivity of cells to virus**

- Viral quantification of Bovine Enterovirus type 1 with cells not treated with “PROCID” disinfectantlog10^{-6.24}
- Viral quantification of Bovine Enterovirus type 1 with cells treated with the “PROCID” disinfectant.....log10^{-5.66}

Note: only can be used to determine the infectivity of cells, those dilutions which: a) show a Low degree of cellular destruction (< 25% of cell monolayer) and b) produce a reduction of the titre of the virus <1 log₁₀.

Control of the effectiveness of the disinfectant detection activity

- Viral quantification of Bovine Enterovirus type 1 after 30 minutes on bath ice without exposing the virus to the “PROCID” disinfectantlog10^{-6.16}
- Viral quantification of Bovine Enterovirus type 1 exposing the virus to “PROCID” disinfectant and incubated 30 minutes on ice bathlog10^{-5.90}

Note: The difference between decimal logarithm of titre without exposing the virus to the product and of the test suspension should be ≤0.5

Special remarks

- All controls and validation were between the basic limits.
- One concentration at least showed a log reduction greater than 4 log.
- One concentration shows at least a reduction less than 4 log.

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Assay results

Description

The disinfectant product **PROCID**, batch not indicated, under low dirty conditions (3 g/L serum albumin), diluted to 5% during 30 minutes of exposure, **shows** virucidal activity against Bovine Enterovirus type 1 with a reduction $\geq 5.65 \pm 0.43$ TCID₅₀, when the activity is assayed according with the UNE-EN 14675: 2015 guideline.

The disinfectant product **PROCID**, batch not indicated, under low dirty conditions (3 g/L serum albumin), diluted to 0.3% and 0.01% and during 30 minutes of exposure, **does not show** virucidal activity against Bovine Enterovirus type 1, with a reduction 1.25 ± 0.57 TCID₅₀ when diluted at 3% and with a reduction 0.16 ± 0.54 TCID₅₀ when diluted at 0.01% when the activity is assayed according with the UNE-EN 14675: 2015 guideline.

Tables of results and graphics

See tables 1 to 2 and figure 1.

Conclusion

The disinfectant product **PROCID**, batch not indicated, under low dirty conditions (3 g/L serum albumin), diluted at **0.3%**, requested by the customer, and during 30 minutes of exposure **does not show** virucidal activity against Bovine Enterovirus type 1, according with the UNE-EN 14675: 2015 guideline.

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ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 213653/20/JSR
Table 1. Results of activity of the product **PROCID**, batch not indicated, with Bovine Enterovirus type 1 (ATCC VR-248) under low dirty conditions:

Product	Concentration*	Interfering substance	Cytotoxicity level	log ₁₀ TCID ₅₀ after.....			Reduction with the confidence interval of 95 % after 30 min
				0 min	15 min	30 min	
PROCID	5%	3 g/L BSA	0.5	-	-	0.50	≥5.65 ± 0.43
	0.3%		0.5	-	-	4.90	1.25 ± 0.57
	0.01%		0.5	-	-	5.99	0.16 ± 0.54
Virus control	NA	3 g/L BSA	NA	6.33	NR	6.15	NA
Formaldehyde	0.7% (p:v)	NA	0.5	-	-	3.49	NA
Virus control Formaldehyde	0.7% (p:v)	NA	0.5	6.16	NR	5.99	NA
Control of sensitivity of cells to virus (difference between decimal logarithm of titre using treated and untreated cells)log ₁₀ ^{-0.58}							
Control of the effectiveness of the disinfectant detection activity (difference between decimal logarithm of titre without exposing the virus to the product and of the test suspension).....log ₁₀ ^{-0.26}							
NA: not applicable; NR: not realized Times recommended by Guideline for veterinary area: 30 minutes (optionals 1, 5 and 60 min). PBS: phosphate buffered saline; BSA: bovine serum albumin. Virucidal activity exists when the titre of virus shows a reduction ≥4 log. *: see Special remarks to understand the values of these concentrations.							

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Table 2. Results of the activity of the **PROCID**, batch not indicated, with Bovine Enterovirus type 1 (ATCC VR-248) under low dirty conditions.

Product	Concentration *	Interfering substance	Time of contact (min)	Dilutions (log10) ^{a,b}							
				1	2	3	4	5	6	7	8
PROCID	5%	3 g/L BSA	30	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	NR
	0.3%		30	4444 4444 4444	4444 4444 4444	4444 4444 4444	0434 4342 4434	2020 2300 0020	0000 0000 2000	0000 0000 0000	NR
	0.01%		30	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	4434 4442 3414	0203 2020 0002	0000 0000 0200	0000 0000 0000
Cytotoxicity	5%	3 g/L BSA	NA	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	NR
Virus control	NA	3 g/L BSA	0	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	0203 2040 3200	0020 0002 3002	0000 0000 0000
			30	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	3220 3404 2344	0222 0320 2302	0002 0000 0020	0000 0000 0000
Formaldehyde	0.7 (p/v)	NA	30	4444 4444 4444	4444 4444 4444	2303 4020 3420	0020 0203 0020	0000 0000 0000	0000 0000 0000	0000 0000 0000	NR
Control of formaldehyde cytotoxicity	0.7 (p/v)	NA	NA	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	NR
Virus control formaldehyde	0.7 (p/v)	NA	0	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	3023 0323 0202	0000 0000 0000	0000 0000 0000
			30	4444 4444 4444	4444 4444 4444	4444 4444 4444	4444 4444 4444	2322 3024 3442	2040 0203 2002	0000 2000 0000	0000 0000 0000
Sensitivity control of cells to virus	NA	NA	Cells not treated	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	C0C0 0CC0 0CCC	00C0 000C C000	0000 0000 0000
			Cells treated	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC C0C0 CCCC	0000 CC0C 0000	00C0 0000 0000	0000 0000 0000
Effectivity control of the disinfectant detection activity	NA	3 g/L BSA	Without PROCID	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	0C0C CC0C 0CCC	0000 0C0C C000	0000 0000 0000
			With PROCID	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	CCCC CCCC CCCC	C0CC 0CCC CCCC	0C0C C0C0 000C	0000 000C 0C00	0000 0000 0000

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a): 1 to 4, virus present and grade of cytopathic effect in 12 units of cellular culture, or grade of cellular lesions in the cytotoxicity assay.

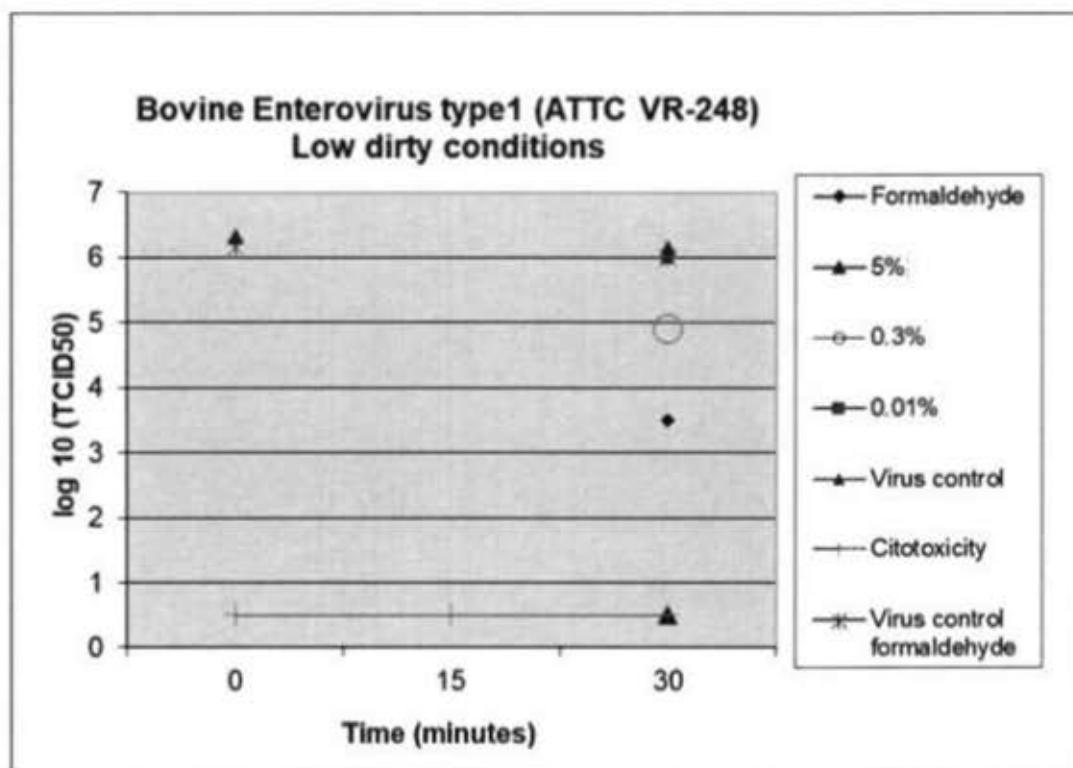
C = cytopathic effect with presence of virus (in this case and according to guideline does not take into account the degree of cytopathic effect only, the presence or absence of the same).

0 = no virus present or absence of cellular lesions in the cytotoxicity assay; NA: not applicable; NR: not realized; BSA: Bovine serum albumin; PBS: phosphate buffered saline.

sec: seconds; min: minutes.

*: see Special remarks to understand the values of these concentrations.

Figure 1. Results of the activity of the **PROCID**, batch not indicated at different concentrations (5%, 0.3% and 0.01%) under low dirty conditions with Bovine Enterovirus type 1 (ATCC VR-248), and for the time of contact indicated.



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