HAMILTON ROMANIA

Digitally signed by Crestinov Evghenii
Date: 2022.05.18 11:27:49 EEST
Reason: MoldSign Signature
Location: Moldova

RAPORT DE INCERCARE NR. 17899/21/ROBCH/Z1

Inlocuieste Raportul de Incercare Nr. 17899/21/ROBCH din 26.04.2021

Client	Numă rul esantionului:
ECOCHIM-GRUP SRL STRADA PETRICANI 21/3 2059 CHIŞINĂU	Sample number Descriere obiect de incercat (conform cu declaratia Clientului) DEZINFECTANT UNIVERSAL "BIO-DEZ" Sample quantity: 1 pcs x 1 L Production date: 26.01.2021 Expiration date: 26.01.2024 Sampling date: 22.02.2021 Sample temperature: 15°C Reception hour: 15:00 Responsible for sampling: Crestinov Alexandr Sample condition with no objections Comanda din 15.03.2021 Probele au fost prelevate si livrate de catre Client.

Data primirii obiectului de incercat:	15.03.2021
Data finalizarii incercarii:	26.04.2021
Data eliberarii raportului:	14.09.2021

Parametrii de testare	Metoda de testare	Unitate de masura	Rezultat
# * Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of virucidal activity in the medical area	UNE-EN 14476:2014 + A2:2019	-	Test method performed by the subcontractor; the results are taken in full from the test report No D/21/ V0204, issued by the subcontractor. The results of the analysis are listed starting with enclosure No1 to report of analysis.

Elaborat de: Mariana Ilinca, Sef Laborator Microbiologie
Autorizat de: Mariana Ilinca, Sef Laborator Microbiologie
Aprobat de catre: Alina-Roxana Mihai, General Manager (Aprobat cu semnatura electronica)

Laborator: Bucuresti 041914, sos. Berceni nr.8

* Metoda de testare acreditata # Test efectuat de catre subcontractor
ø Incercari neacreditate

J.S. Hamilton Romania S.R.L.
Sos.Berceni nr.8, sector 4, 041902 Bucuresti, Romania, Tel.+40 21 634 10 81
bucharest@hamilton.com.pl, www.hamilton.com.pl

ENCLOSORE NO. 1 SUBCONTRACTED TESTS TO REPORT OF ANALYSIS NO 17899/21/ROBCH/Z1

Conclusion

The disinfectant sample **"DEZINFECTANT UNIVERSAL, BIO-DEZ"**, batch not indicated, under clean conditions (bovine serum albumin 0.3 g/L), at **3%** concentration, requested by the client, and during 60 seconds of contact time and 20°C of temperature, **does not show** virucidal activity against the three mandatory viruses (Poliovirus type 1, Adenovirus type 5 and Murine Norovirus) when the activity is assayed according with the NF EN 14476: 2013 + A2: 2019 Standard. However, the disinfectant sample **"DEZINFECTANT UNIVERSAL, BIO-DEZ"**, batch not indicated, under clean conditions (bovine serum albumin 0.3 g/L), at **80%** concentration and during 60 seconds of contact time and 20°C of temperature, **shows** virucidal activity against the three mandatory viruses (Poliovirus type 1, Adenovirus type 5 and Murine Norovirus) when the activity is assayed according with the NF EN 14476: 2013 + A2: 2019 Standard.

Therefore, the disinfectant tested, **does not show general virucidal activity**, diluted at **3%** and **it shows general virucidal activity**, diluted at **80%** when the activity is evaluated according to the NF EN 14476: 2013 + A2: 2019 Standard.

Note 1: The results obtained correspond to the sample received in this laboratory.
Note 2: The information that depend on the information received from the client and are not facilitated by the same one, shown as "not indicated".

Quality Assurance Review:

The assay development and the results obtained have been supervised by the Director of the study.

The Quality Assurance Director has inspected the development of the assay, proving that has been realized following the proper procedure and using the adequate media, materials and reagents, following as well the Good Laboratory Practices (GLPs) and the final report contains the primary data obtained.

Reference:

- **NF EN 14476: 2013 + A2: 2019** Standard. Virucidal quantitative suspension test for chemical disinfectants and antiseptics used in human medicine. Test method and requirements (Phase 2/Step 1). AFNOR.

HAMILTON ROMANIA

REPORT OF ANALYSIS No. 80249/21/ROBCH

Client **ECOCHIM-GRUP SRL** STRADA PETRICANI 21/3 2059 CHIŞINĂU	Sample number: **80249/21/ROBCH** Sample description *(according to declaration of Client)* **DEZINFECTANT UNIVERSAL "BIO-DEZ"** **Lot: -** **Data fabricatie: 01.10.2021** **Data expirarii: 01.10.2024** **Data prelevarii: -** **Cantitate prelevata: 1 x 500 ml** **Responsabil prelevare: CRESTINOV ALEXANDR** **Ora receptiei probei: 15:30** **Temperatura receptie proba: 15°C** **Sample condition with no objections**
Sample received: **11.10.2021** Tests performed: **21.10.2021** Tests completed: **13.12.2021** Report dated: **13.12.2021**	**Order of 11.10.2021** Sampling and delivery were carried out by client.

Test	Method	Unit	Result
# * Quantitative suspension test for the evaluation of bactericidal activity in medical area	EN 13727:2012+A2:2015	-	Test method performed by the subcontractor; the results are taken in full from the test report No D/21/ B0645, issued by the subcontractor. The results of the analysis are listed starting with enclosure No1 to report of analysis.

Elaborated by: Mariana Ilinca, Manager of Microbiological Laboratory
Authorized by: Mariana Ilinca, Manager of Microbiological Laboratory
Approved by: Alina-Roxana Mihai, General Manager *(Approved with qualified electronic signature)*

* Test method accredited # Test performed by external provider
ø Non accredited methods

J.S. Hamilton Romania S.R.L.
8 Berceni Street, 041914 Bucharest, Romania, tel. +40 21 634 10 81
bucharest@hamilton.com.pl, www.hamilton.com.pl

NCLOSORE NO. 1 SUBCONTRACTED TESTS TO REPORT OF ANALYSIS NO 80249/21/ROBCH

Results of the assay

- Assay of validation ..... See tables 1, 2, 4, 5, 7, 8, 10 and 11.
- Evaluation of bactericidal activity..... See tables 3, 6, 9 and 12.
- Number of replicates per assay organism .. 1.

Special remarks

- All controls and validation were between the basic limits.
- At least one concentration of the sample showed a log reduction lower than 5 log.
- At least one concentration of the sample showed a log reduction higher than 5 log.
- The highest concentration that can be assayed in the test (80%) is due to the mixtures to perform the assay.
- No precipitate formed during the test procedure (the test mixtures were homogeneous).

Conclusion

The product **Desinfectant Universal"Bio-Dez"**, batch not indicated, when is pure (80%), **shows bactericidal activity** after 60 seconds at 20°C ± 1°C, under dirty conditions (bovine serum albumin 3 g/L and erythrocytes 3 mL/L), for the reference strains *Pseudomonas aeruginosa* (CECT 116 = ATCC 15442), *Staphylococcus aureus* (CECT 239 = ATCC 6538), *Enterococcus hirae* (CECT 4081 = ATCC 10541) and *Escherichia coli* K12 (CECT 433 = NCTC 10538), when tested according to **UNE-EN 13727: 2012 + A2: 2015 Standard**.

Note: The results obtained correspond to the sample received in the laboratory.

Quality Assurance Review:

The assay development and the results obtained have been supervised by the Director of the study.

The Quality Assurance Director has inspected the development of the assay, proving that has been realized following the proper procedure and using the adequate media, materials, and reagents, following the Good Laboratory Practices (GLPs) as well and the final report contains the primary data obtained.

Reference

- **UNE-EN 13727: 2012 + A2: 2015.** Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants for instruments used in Medicine. Test method and requirements (phase 2, step 1). AENOR.

JS. HAMILTON ROMANIA S.R.L.
8 Berceni Street, 041902 Bucharest, Romania
Tel.+40 21 634 10 81 bucharest@hamilton.com.pl, www.hamilton.com.pl

HAMILTON ROMANIA

REPORT OF ANALYSIS No. 80248/21/ROBCH

Client **ECOCHIM-GRUP SRL** STRADA PETRICANI 21/3 2059 CHIȘINĂU	Sample number: **80248/21/ROBCH** Sample description *(according to declaration of Client)* **DEZINFECTANT UNIVERSAL "BIO-DEZ"** **Lot: -** **Data fabricatie: 01.10.2021** **Data expirarii: 01.10.2024** **Data prelevarii: -** **Cantitate prelevata: 2 x 500 ml** **Responsabil prelevare: CRESTINOV ALEXANDR** **Ora receptiei probei: 15:30** **Temperatura receptie proba: 15°C** **Sample condition with no objections**
Sample received: **11.10.2021** Tests performed: **21.10.2021** Tests completed: **13.12.2021** Report dated: **13.12.2021**	**Order of 11.10.2021** Sampling and delivery were carried out by client.

Test	Method	Unit	Result
# * Fungicidal activity in medical area. Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area. Test method and requirements (phase 2, step 1).	EN 13624:2014	-	Test method performed by the subcontractor; the results are taken in full from the test report No D/21/ B0644 , issued by the subcontractor. The results of the analysis are listed starting with enclosure No1 to report of analysis.

Elaborated by: Mariana Ilinca, Manager of Microbiological Laboratory
Authorized by: Mariana Ilinca, Manager of Microbiological Laboratory
Approved by: Alina-Roxana Mihai, General Manager *(Approved with qualified electronic signature)*

* Test method accredited # Test performed by external provider
ø Non accredited methods

J.S. Hamilton Romania S.R.L.
8 Berceni Street, 041914 Bucharest, Romania, tel. +40 21 634 10 81
bucharest@hamilton.com.pl, www.hamilton.com.pl

OSORE NO. 1 SUBCONTRACTED TESTS TO REPORT OF ANALYSIS NO 80248/21/ROBCH

sults of the assay

- Assay of validation ..... See tables 1 and 2.
- Evaluation of yeasticidal activity..... See table 3.
- Number of replicates per assay organism ..... 1.

Special remarks

- All controls and validation were between the basic limits.
- At least one concentration of the sample showed a log reduction lower than 4 log.
- At least one concentration of the sample showed a log reduction higher than 4 log.
- The highest concentration that can be assayed in the test (80%) is due to the mixtures to perform the assay.
- No precipitate formed during the test procedure (the test mixtures were homogeneous).

Conclusion

The product **Desinfectant Universal"Bio-Dez"**, batch not indicated, when is pure (80%), shows **yeasticidal activity** after 60 seconds at 20°C ± 1°C, under dirty conditions (bovine serum albumin 3 g/L and erythrocytes 3 mL/L), for the reference strain *Candida albicans* (CECT 1394 = ATCC 10231), when tested as required by the **UNE-EN 13624: 2014 Standard.**

Note: The results obtained correspond to the sample received in the laboratory.

Quality Assurance Review:

The assay development and the results obtained have been supervised by the Director of the study.

The Quality Assurance Director has inspected the development of the assay, proving that has been realized following the proper procedure and using the adequate media, materials, and reagents, following the Good Laboratory Practices (GLPs) as well and the final report contains the primary data obtained.

Reference

- **UNE-EN 13624 : 2014**. Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of the fungicidal or yeasticidal activity in the medical area. Test method and requirements (phase 2, step 1). AENOR.

JS. HAMILTON ROMANIA S.R.L.
8 Berceni Street, 041902 Bucharest, Romania
Tel.+40 21 634 10 81 bucharest@hamilton.com.pl, www.hamilton.com.pl

HAMILTON

AB 079

REPORT OF ANALYSIS No. L21206/22/JSHR

Client	Sample description *(according to declaration of Client)*
ECOCHIM-GRUP SRL OR. OTACI, STR. VOITOVICI 21 2059 CHIȘINĂU	**Dezinfectant Universal "Bio-Dez"** **Lot/Batch: -** **Production date: -** **Expiration date: 18.02.2025** **Sampling date: 18.02.2022** **Sampling quantity: 1x 500ml** **Sample temperature: 20°C** **Reception hour: 12:30** **Responsible for sampling: Crestinov Alexandr** **Sample condition with no objections** **Sample No 1** **Order of 2022-03-02** The samples were delivered by Client

Sample received:	**2022-03-03**
Analysis completed (the date of performance of the laboratory activity):	**2022-04-13**
Report dated:	**2022-04-13**

Test	Method	Unit	Result
* Bactericidal and/or fungicidal activity of disinfectants on non-porous surfaces - quantitative method[1)]	PN-EN 13697+A1:2019-08	-	Product undiluted and diluted to 50% shows bactericidal activity at 60 seconds, 20°C, in dirty conditions (3g/L bovine albumin) at reference strains: Staphylococcus aureus ATCC 6538, Enterococcus hirae ATCC 10541, Pseudomonas aeruginosa ATCC 15442 and Escherichia coli ATCC 10536.

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

THE END OF THE REPORT

Authorized by: Daria Depa, Senior Analyst Specialist, Cosmetics Microbiology Laboratory
Approved by: Hanna Wachowska, Laboratory Director *(Approved with electronic signature)*

Laboratory: Tychy 43-100, Goździków 1

* Test method accredited; # Test performed by external provider

J.S. HAMILTON POLAND Sp. z o.o.
TESTING LABORATORY
ul. Chwaszczyńska 180, 81-571 Gdynia, Poland, tel. +48 58 766 99 00