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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk

Evaluation of the yeasticidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)

Testing conditions

Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Yeast strain used in the test:	*Candida albicans* ATCC 10231
Yeast suspension used in the test	yeast suspension was prepared according to Annex C of PN-EN 13704:2004
Yeast suspension intended for testing	1.7 x 10^6 CFU/1 ml
Yeast number after the contact time:	<1 CFU/1 ml
Reduction in the yeast number:	R ≥ 5 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a yeasticidal effect on yeast strand of *Candida albicans* ATCC 10231 for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13697:2018, PN EN 14885:2019 (phase 2, stage 1).

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English Language Certified Translator

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk
Ref. No. 254/15.10.2020

Evaluation of the fungicidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Fungal strain used in the test:	*Aspergillus niger* ATCC 16404
Fungal suspension used in the test	fungal suspension was prepared according to Annex C of PN-EN 13704:2004
Fungal suspension intended for testing	2.1×10^6 CFU/1 ml
Fungi number after the contact time:	<1 CFU/1 ml
Reduction in the fungi number:	R > 4 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a fungicidal effect on fungal strand of *Aspergillus niger* ATCC 16404 (spores) for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13697:2018, PN EN 14885:2019 (phase 2, stage 1).

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk

Ref. No. 253/15.10.2020

Evaluation of the virucidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	adsorption on a non-porous surface, dilution, microfiltration, determination of plaque forming units with the TCID50 method
Adsorption material	stainless steel
Ballast substance	no ballast substance
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	22°C±3°C (+8°C±0.5°C for virus dilutions)
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Virus type used in the test:	bovine herpesvirus 1, strain Lam US3-mCherry
Virus preparation origin	preparation was prepared according to Annex Rabenau et al.
Virus dose used for the test:	6×10^6
Volume of preparation used for the test:	0.2 ml
Virus separation from the solution after the test:	partial (microfiltration, filter: Amicon Ultra-2 MWCO 3K)
Virus plaque forming units obtained for the control sample (phosphate buffer)	1.8×10^6 PFU / 1 ml
Virus plaque forming units under test conditions	0
Reduction of plaque forming units:	R > 6 log

Conclusion

The disinfectant liquid SEPID has a virucidal effect on the enveloped bovine herpesvirus 1 for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the EU standard: CEN 216 WI 00216037 acc. Rabenau, Holger & Schwebke, I. & Steinmann, J. & Eggers, Maren & Rapp, Ingrid. (2012). Quantitative test for the evaluation of virucidal activity of chemical disinfectants on non-porous surfaces. Hygiene + Medizin. 37.459-466 and PN:EN 14476.

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Joanna Jensen, M.Sc.
English Language Certified Translator

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk
Ref. No. 249/15.10.2020

Evaluation of the bactericidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Bacterial strain used in the test:	*Escherichia coli* ATCC 10538
Bacterial suspension used in the test	bacterial suspension was prepared according to Annex C of PN-EN 13704:2004
Bacterial suspension intended for testing	2.0×10^7 CFU/1 ml
Bacteria count after the contact time:	<1 CFU/1 ml
Reduction of the bacteria count:	R > 5 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a bactericidal effect on bacterial strand of *Escherichia coli* ATCC 10538 for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13697:2018, PN EN 14885:2019 (phase 2, stage 1).

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English Language Certified Translator

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk
Ref. No. 252/15.10.2020

Evaluation of the bactericidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Bacterial strain used in the test:	*Staphylococcus aureus* ATCC 6538
Bacterial suspension used in the test	bacterial suspension was prepared according to Annex C of PN-EN 13704:2004
Bacterial suspension intended for testing	2.4×10^7 CFU/1 ml
Bacteria count after the contact time:	<1 CFU/1 ml
Reduction of the bacteria count:	R > 5 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a bactericidal effect on bacterial strand of *Staphylococcus aureus* ATCC 6538 for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13697:2018, PN EN 14885:2019 (phase 2, stage 1).

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk
Ref. No. 250/15.10.2020

Evaluation of the bactericidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Bacterial strain used in the test:	*Pseudomonas aeruginosa* ATCC 15442
Bacterial suspension used in the test	bacterial suspension was prepared according to Annex C of PN-EN 13704:2004
Bacterial suspension intended for testing	1.5×10^{7} CFU/1 ml
Bacteria count after the contact time:	<1 CFU/1 ml
Reduction of the bacteria count:	R > 5 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a bactericidal effect on bacterial strand of *Pseudomonas aeruginosa* ATCC 15442 for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13697:2018, PN EN 14885:2019 (phase 2, stage 1).

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Joanna Jensen, M.Sc.
English Language Certified Translator

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk
Ref. No. 255.15.10.2020

Evaluation of the sporicidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C ± 0.5°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Bacterial strain used in the test:	*Clostridium sporogenes* ATCC 19404
Spore origin	spore suspension was prepared according to Annex C of PN-EN 13704:2004
Spore suspension intended for testing	1.2×10^7 CFU/1 ml
Spore number after the contact time:	670 CFU/1 ml
Reduction of the spore number:	R > 3 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a sporicidal effect on *Clostridium sporogenes* ATCC 19404 strand spores for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13704:2018, PN EN 14885:2019 (phase 2, stage 1).

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MEDICAL UNIVERSITY OF GDAŃSK
www.gumed.edu.pl
58 349 11 11
info@gumed.edu.pl
ul. M. Skłodowskiej-Curie 3a
80-210 Gdańsk
Ref. No. 251/15.10.2020

Evaluation of the bactericidal effect of disinfectant liquid SEPID

Identification data of the disinfectant liquid

Name of the disinfectant liquid	SEPID
Manufacturer:	PLASTMAL Piotr Olszewski ul. Sengera Cichego 9/24 02-790 Warszawa
Date of the submission for testing:	28 July 2020
Storage condition	in a closed container at room temperature
Active substance and its concentration:	alkyl (C12-16) dimethylbenzyl ammonium chloride 0.4-0.5% alcohols C9-11 ethoxylated alcohols 0.1-0.2% alcohols C12-14 ethoxylated propoxylated 0.05-0.1 tetrasodium EDTA 0.07-0.1% sodium metasilicate pentahydrate 0.03-0.05%

Testing method and its validation

Method for carrying out tests:	dilution - neutralisation
Neutraliser	sodium thiosulphate 5g/l
Ballast substance	bovine albumin 3 g/l (dirty conditions)
Testing conditions	
Testing period:	31 July 2020 - 17 August 2020
Liquid thinner used in the test:	without dilution
Tested concentration of the liquid	without dilution
Appearance of the disinfectant liquid	clear, transparent
Testing temperature	20°C
Contact time:	5 minutes
Durability of the mixture used in the test:	no precipitations during the test
Bacterial strain used in the test:	*Enterococcus hirae* ATCC 1054
Bacterial suspension used in the test	bacterial suspension was prepared according to Annex C of PN-EN 13704:2004
Bacterial suspension intended for testing	1.4 x 10^7 CFU/1 ml
Bacteria count after the contact time:	<1 CFU/1 ml
Reduction of the bacteria count:	R > 5 log

Tests were performed in three replicates.

Conclusion

The disinfectant liquid SEPID has a bactericidal effect on bacterial strand of *Enterococcus hirae* ATCC 10541 for the contact time of 5 minutes at 20°C ± 0.5°C. The tests were conducted in accordance with the guidelines provided in the standards: PN EN 13697:2018, PN EN 14885:2019 (phase 2, stage 1).

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