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Chemical and Microbiological Laboratory, Testing Laboratory No. 1273 certified by Czech Accreditation Institute according to ČSN EN ISO/IEC 17025:2005.

Copy No.: 1
Issue No.: 1

CONFIDENTIAL

Test report No. S186/2019

DETERMINATION OF FUNGICIDAL (EN 13624:2013, EN 14562:2006) ACTIVITY OF THE PRODUCT **GLOBACID SF 2%**

Sample ID: S186/2019
Sample name: **GLOBACID SF 2%**
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Producer: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404

Incoming date:
29.5.2019

Delivery date:
22.7.2019

Hodonín, 22.7.2019

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Ing. Jana Šlitrová, Head of Laboratory

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

Subject of testing:
Determination of fungicidal activity of the product.

Identification of the sample:

Name of the product:	**GLOBACID SF 2%**
Batch number:	16-322A
Date of manufacture:	09.2018
Expiry date:	09.2021
Manufacturer:	Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Incoming date:	29.5.2019
Storage conditions:	stated by the manufacturer

Active ingredients:
CAS 2372-82-9 N-(3aminopropyl)-N-dodecyl propane-1,3-diamine <1%
CAS 94667-33-1 quaternary ammonium compounds <1%

Experimental conditions:	**Testing of disinfecting efficiency of chemical disinfecting and antiseptic agents by suspension method** SOP-M-19-00 (EN 13624:2013)
Period of analysis:	28.6. – 1.7.2019
Test temperature:	20 °C ± 1 °C
Test method:	dilution neutralization method
Neutralization medium:	Dey-Engley Neutralizing Broth M 1062
Appearance of the product:	colourless liquid
Test concentration:	100% (concentrated)*
Contact time:	5 min, 15 min, 30 min
Interfering substances:	3 g/l BSA and 3 ml/l sheep erythrocytes (dirty conditions)
Test organisms:	*Candida albicans* ATCC 10231 *Aspergillus brasiliensis (niger)* ATCC 16404
Incubation conditions:	30 °C ± 1 °C, 48 hours and additional period of 24 or 48 hours

Test procedure:
1. Preparation of test suspension
2. Preparation of product test solutions
3. Quantitative suspension test
4. Incubation and calculation
5. Expression and interpretation of results

Note:
Presence of a high concentration (at least 75%) of *Aspergillus brasiliensis* spiny spores in the test suspension – yes.
Fungicidal activity – the capability of a product to produce a reduction in the number of viable fungi belonging to reference strains under defined conditions by at least a 4 lg reduction (10^4).
Yeasticidal activity – the capability of a product to produce a reduction in the number of viable yeast cells of relevant test organisms under defined conditions by at least a 4 lg reduction (10^4).
$R = N_0 / N_a$ = the reduction in viability, or $\lg R = \lg N_0 - \lg N_a$
* Product can only be tested at a concentration of 97% (RTU product) or less, as some dilution is always produced by adding the test organisms and interfering substance.

The standard:
EN 13624:2013 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) September 2013

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

The Number of CFU in the tested product: 0 CFU/ml

1. Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Candida albicans* ATCC 10231

Tab No. 1.1 Verification of methodology, dirty conditions

Validation of suspension (N_{V0})			Validation of selected experimental conditions (A)			Neutralizer toxicity control (B)			Method validation (C) Product conc. 100%*		
V_{c1}	36	Φ_{NV0} = 33	V_{c1}	28	Φ_A = 30.5	V_{c1}	25	Φ_B = 28	V_{c1}	24	Φ_C = 28
V_{c2}	30		V_{c2}	33		V_{c2}	31		V_{c2}	32	
$30 \leq \Phi_{NV0} \leq 160$			$\Phi_A \geq 0.5\ \Phi_{NV0}$			$\Phi_B \geq 0.5\ \Phi_{NV0}$			$\Phi_C \geq 0.5\ \Phi_{NV0}$		
x yes		no	x yes		no	x yes		no	x yes		no

Validation of suspension (N_{VB})	V_{c1}	29	V_{c2}	35	Φ_{NVB}	32	$30 \leq \Phi_{NVB}\ (N_{VB}/1000) \leq 160$		
							x yes		no

Tab No. 1.2 Test suspension

Test suspension N	N	V_{c1}	V_{c1}	Test suspension N_0 (time = 0)
$\Phi = 249 \times 10^6 = \lg 8.40$	10^{-6}	235	255	$\lg N_0 = \lg N/100 = \lg 6.40$
$8.17 \leq \lg N \leq 8.70$	10^{-7}	24	34	$6.17 \leq \lg N_0 \leq 6.70$
				x yes / no

Tab No. 1.3 Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Candida albicans* ATCC 10231

Test concentration (%)* /contact time (min)/conditions	Dilution after test procedure	V_{c1}	V_{c2}	$\lg N_a = \lg (\Phi_a \times 10)$	**$\lg R$ ($\lg N_0 = \lg 6.40$)**
100 / 5 / dirty	10^0	<14	<14	< 2.15	**≥ 4.25**
100 / 15 / dirty	10^0	<14	<14	< 2.15	**≥ 4.25**
100 / 30 / dirty	10^0	<14	<14	< 2.15	**≥ 4.25**

2. Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Aspergillus brasiliensis (niger)* ATCC 16404

Tab No. 2.1 Verification of methodology, dirty conditions

Validation of suspension (N_{V0})			Validation of selected experimental conditions (A)			Neutralizer toxicity control (B)			Method validation (C) Product conc. 100%*		
V_{c1}	43	Φ_{NV0} = 49	V_{c1}	37	Φ_A = 44	V_{c1}	54	Φ_B = 41.5	V_{c1}	46	Φ_C = 38.5
V_{c2}	55		V_{c2}	51		V_{c2}	29		V_{c2}	31	
$30 \leq \Phi_{NV0} \leq 160$			$\Phi_A \geq 0.5\ \Phi_{NV0}$			$\Phi_B \geq 0.5\ \Phi_{NV0}$			$\Phi_C \geq 0.5\ \Phi_{NV0}$		
x yes		no	x yes		no	x yes		no	x yes		no

Validation of suspension (N_{VB})	V_{c1}	50	V_{c2}	49	Φ_{NVB}	49.5	$30 \leq \Phi_{NVB}\ (N_{VB}/1000) \leq 160$		
							x yes		no

Tab No. 2.2 Test suspension

Test suspension N	N	V_{c1}	V_{c1}	Test suspension N_0 (time = 0)
$\Phi = 49 \times 10^7 = \lg 8.69$	10^{-6}	> 165	> 165	$\lg N_0 = \lg N/100 = \lg 6.69$
$8.17 \leq \lg N \leq 8.70$	10^{-7}	47	51	$6.17 \leq \lg N_0 \leq 6.70$
				x yes / no

Tab No. 2.3 Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Aspergillus brasiliensis (niger)* ATCC 16404

Test concentration (%)* /contact time (min)/conditions	Dilution after test procedure	V_{c1}	V_{c2}	$\lg N_a = \lg (\Phi_a \times 10)$	**$\lg R$ ($\lg N_0 = \lg 6.69$)**
100 / 5 / dirty	10^0	17	18	2.24	**4.45**
100 / 15 / dirty	10^0	<14	<14	< 2.15	**≥ 4.54**
100 / 30 / dirty	10^0	<14	<14	< 2.15	**≥ 4.54**

* Product can only be tested at a concentration of 97% (RTU product) or less, as some dilution is always produced by adding the test organisms and interfering substance.

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

3. Evaluation of fungicidal activity of the product **GLOBACID SF 2%**

Tab No. 3.1 The efficacy of chemical disinfectant **GLOBACID SF 2%** on test strains – fungicidal activity

Fungicidal activity of the product (EN 13624:2013)						
Strain	Test temperature [°C]	Contact time [min]	Product test concentrations [%]*	Interfering substances - conditions	lg R EN 13624:2013	**lg R**
Candida albicans ATCC 10231	20	5	100	dirty	≥ 4	**> 4**
Aspergillus brasiliensis (niger) ATCC 16404	20	5	100	dirty	≥ 4	**> 4**
Candida albicans ATCC 10231	20	15	100	dirty	≥ 4	**> 4**
Aspergillus brasiliensis (niger) ATCC 16404	20	15	100	dirty	≥ 4	**> 4**
Candida albicans ATCC 10231	20	30	100	dirty	≥ 4	**> 4**
Aspergillus brasiliensis (niger) ATCC 16404	20	30	100	dirty	≥ 4	**> 4**

Note: V_c = value is the number of cfu per ml, Φ = average V_{c1} a V_{c2} (1. + 2. duplicate V_c values), N = the number of cfu/ml of the test suspension, N_{V0} = the number of cfu/ml of the test suspension for validation, N_a = the number of surviving fungi per ml in the test mixture, A, B, C = the number of surviving fungi per ml in control tests (A – experimental conditions validation, B – neutralizer toxicity validation, C – method validation), $R = N_0 / N_a$ = the reduction in viability, or $\lg R = \lg N_0 - \lg N_a$
* Product can only be tested at a concentration of 97% (RTU product) or less, as some dilution is always produced by adding the test organisms and interfering substance.

Prepared by: Mgr. Karolína Světlíková, Lab Technician

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019 | Sampling date: 24.5.2019
Rep No: 93 | Sample delivered: 29.5.2019
Sample name: **GLOBACID SF 2%** | Testing date: 28.6. – 17.7.2019
Sampled: by client | Delivered amount: 500 ml
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A | Page: 5

Experimental conditions:	**Testing of disinfecting efficiency of chemical disinfecting and antiseptic agents on carriers** SOP-M-22-12 (EN 14562:2006)
Period of analysis:	15.7. – 17.7.2019
Test temperature:	20 °C ± 1 °C
Test method:	dilution neutralization method
Neutralization medium:	Dey-Engley Neutralizing Broth M 1062
Appearance of the product:	colourless liquid
Test concentration:	100% (concentrated)
Contact time:	5 min, 15 min, 30 min
Interfering substances:	3 g/l BSA and 3 ml/l sheep erythrocytes (dirty conditions)
Test organisms:	*Candida albicans* ATCC 10231
	Aspergillus brasiliensis (niger) ATCC 16404
Incubation conditions:	30 °C ± 1 °C, 48 hours and additional period of 24 or 48 hours

Test procedure:

1. Preparation of the test suspension
2. Preparation of the product test solutions
3. Quantitative carrier test
4. Incubation and calculation
5. Expression and interpretation of the results

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Note:
Presence of a high concentration (at least 75%) of *Aspergillus brasiliensis* spiny spores in the test suspension – yes.
Fungicidal activity – the capability of a product to produce a reduction in the number of relevant organisms on carriers under defined conditions by at least a 4 lg reduction (10^4).
Yeasticidal activity – the capability of a product to produce a reduction in the number of viable fungi belonging to reference strain *Candida albicans* on carriers under defined conditions by at least a 4 lg reduction (10^4).
The drying time: 20-38 min
$R = N_W / N_a$ or $\lg R = \lg N_W - \lg N_a$ = the reduction in viability

The standard:
EN 14562:2006 Chemical disinfectants and antiseptics – Quantitative carrier test for the evaluation of fungicidal or yeasticidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2) May 2006

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

4. Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Candida albicans* ATCC 10231 on carriers

Tab No. 4.1 Verification of methodology, dirty conditions

Validation of suspension (N_{v0})			Validation of selected experimental conditions (A)			Neutralizer toxicity control (B)			Method validation (C) Product conc.: 100%		
V_{c1}	26	$\Phi_{Nv0} = 31$	V_{c1}	28	$\Phi_A = 28$	V_{c1}	31	$\Phi_B = 28$	V_{c1}	25	$\Phi_C = 25.5$
V_{c2}	36		V_{c2}	28		V_{c2}	25		V_{c2}	26	
$30 < \Phi_{Nv0} < 160$			$\Phi_A > 0.5\ \Phi_{Nv0}$			$\Phi_B > 0.5\ \Phi_{Nv0}$			$\Phi_C > 0.5\ \Phi_{Nv0}$		
x yes		no	x yes		no	x yes		no	x yes		no

Tab No. 4.2 Test suspension

Test suspension (N)	N	V_{c1}	V_{c1}	$\Phi = 34.5 \times 10^7 = \lg 8.54$ $8.17 \leq \lg N \leq 8.70$
	10^{-6}	> 330	> 330	
	10^{-7}	34	35	
				x yes / no

Tab No. 4.2.1 The control test suspension, dirty conditions

Test suspension (N_W)	N_W	V_{c1}	V_{c2}	$\Phi \times 10 = 1250 \times 10^4 = \lg 7.10$ $\lg N_W = \lg 7.10$ $6.15 \leq \lg N_w \leq (\lg N - 1.3)\ 7.24$
	10^{-4}	131	119	
				x yes / no

Tab No. 4.3 Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Candida albicans* ATCC 10231 on carriers, dirty conditions

Test concentration (%) / contact time (min) / conditions	Dilution after test procedure	V_{c1}	V_{c2}	$\lg N_a = \lg (\Phi_a \times 10)$	**$\lg R$ ($\lg N_W = \lg 7.10$)**
100 / 5 / dirty	10^0	<14	<14	< 2.15	**≥ 4.95**
100 / 15 / dirty	10^0	<14	<14	< 2.15	**≥ 4.95**
100 / 30 / dirty	10^0	<14	<14	< 2.15	**≥ 4.95**

Note: V_c = value is the number of cfu per ml, Φ = average V_{c1} a V_{c2} (1. + 2. duplicate V_c values), N = the number of cfu/ml of the fungal test suspension, N_W = the number of cfu/ml of the control fungal test suspension, N_a = the number of surviving fungi per ml in the test mixture at the end of the contact time, N_{v0}= the number of cfu/ml of the fungal test suspension in the mixture A,B,C at the beginning of the contact time (time „0"), A,B,C = the number of surviving fungi per ml in control tests (A – experimental conditions validation, B – neutralizer toxicity validation, C – method validation), $R = N_W / N_a$ or $\lg R = \lg N_W - \lg N_a$ = the reduction in viability

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

5. Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Aspergillus brasiliensis (niger)* ATCC 16404 on carriers

Tab No. 5.1 Verification of methodology, dirty conditions

Validation of suspension (N_{v0})			Validation of selected experimental conditions (A)			Neutralizer toxicity control (B)			Method validation (C) Product conc.: 100%		
V_{c1}	47	$\Phi_{Nv0} = 34.5$	V_{c1}	19	$\Phi_A = 26.5$	V_{c1}	38	$\Phi_B = 32.5$	V_{c1}	30	$\Phi_C = 31.5$
V_{c2}	22		V_{c2}	34		V_{c2}	27		V_{c2}	33	
$30 \leq \Phi_{Nv0} \leq 160$			$\Phi_A > 0.5\ \Phi_{Nv0}$			$\Phi_B > 0.5\ \Phi_{Nv0}$			$\Phi_C > 0.5\ \Phi_{Nv0}$		
x yes		no	x yes		no	x yes		no	x yes		no

Tab No. 5.2 Test suspension

Test suspension (N)	N	V_{c1}	V_{c1}	$\Phi = 46 \times 10^7 = \lg 8.66$ $8.17 \leq \lg N \leq 8.70$
	10^{-6}	> 165	> 165	
	10^{-7}	51	41	
				x yes / no

Tab No. 5.2.1 The control test suspension, dirty conditions

Test suspension (N_W)	N_W	V_{c1}	V_{c2}	$\Phi \times 10 = 580 \times 10^4 = \lg 6.76$ $\lg N_W = \lg 6.76$ $6.15 \leq \lg N_w \leq (\lg N - 1.3)\ 7.36$
	10^{-4}	64	52	
				x yes / no

Tab No. 5.3 Testing the efficacy of chemical disinfectant **GLOBACID SF 2%** on *Aspergillus brasiliensis (niger)* ATCC 16404 on carriers, dirty conditions

Test concentration (%) / contact time (min) / conditions	Dilution after test procedure	V_{c1}	V_{c2}	$\lg N_a = \lg (\Phi_a \times 10)$	**$\lg R$ ($\lg N_W = \lg 6.76$)**
100 / 5 / dirty	10^{-1}	86	65	3.88	**2.88**
100 / 15 / dirty	10^{-1}	14	27	3.31	**3.45**
100 / 30 / dirty	10^{0}	27	25	2.41	**4.35**

Note: V_c = value is the number of cfu per ml, Φ = average V_{c1} a V_{c2} (1. + 2. duplicate V_c values), N = the number of cfu/ml of the fungal test suspension, N_W = the number of cfu/ml of the control fungal test suspension, N_a = the number of surviving fungi per ml in the test mixture at the end of the contact time, N_{v0}= the number of cfu/ml of the fungal test suspension in the mixture A,B,C at the beginning of the contact time (time „0"), A,B,C = the number of surviving fungi per ml in control tests (A – experimental conditions validation, B – neutralizer toxicity validation, C – method validation), $R = N_W / N_a$ or $\lg R = \lg N_W - \lg N_a$ = the reduction in viability

Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

6. Evaluation of fungicidal activity of the product **GLOBACID SF 2%**

Tab No. 6.1 The efficacy of chemical disinfectant **GLOBACID SF 2%** on test strains – fungicidal activity

Fungicidal activity of the product (EN 14562:2006)						
Strain	Test temperature [°C]	Contact time [min]	Product test concentrations [%]	Interfering substances - conditions	lg R EN 14562:2006	**lg R**
Candida albicans ATCC 10231	20	5	100	dirty	≥ 4	**> 4**
Aspergillus brasiliensis (niger) ATCC 16404	20	5	100	dirty	≥ 4	**< 4**
Candida albicans ATCC 10231	20	15	100	dirty	≥ 4	**> 4**
Aspergillus brasiliensis (niger) ATCC 16404	20	15	100	dirty	≥ 4	**< 4**
Candida albicans ATCC 10231	20	30	100	dirty	≥ 4	**> 4**
Aspergillus brasiliensis (niger) ATCC 16404	20	30	100	dirty	≥ 4	**> 4**

Note: V_c = value is the number of cfu per ml, Φ = average V_{c1} a V_{c2} (1. + 2. duplicate V_c values), N = the number of cfu/ml of the fungal test suspension, N_W = the number of cfu/ml of the control fungal test suspension, N_a = the number of surviving fungi per ml in the test mixture at the end of the contact time, N_{v0}= the number of cfu/ml of the fungal test suspension in the mixture A,B,C at the beginning of the contact time (time „0"), A,B,C = the number of surviving fungi per ml in control tests (A – experimental conditions validation, B – neutralizer toxicity validation, C – method validation), $R = N_W / N_a$ or $\lg R = \lg N_W - \lg N_a$ = the reduction in viability

Prepared by: Ing. Eva Kremlová, Lab Technician

escription: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: S186/2019
Rep No: 93
Sample name: **GLOBACID SF 2%**
Sampled: by client
Sampling point: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Client: Goodpoint Chemicals Ltd, Urda tee 3, Jälgimäe, Saku vald, Harjumaa, Estonia 76404
Batch No: 16-322A

Sampling date: 24.5.2019
Sample delivered: 29.5.2019
Testing date: 28.6. – 17.7.2019
Delivered amount: 500 ml

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Interpretation:
Results of tests are in Tabs.
According to EN 13624:2013 the tested concentrated* product **GLOBACID SF 2%**, batch No. 16-322A, in the contact times 5 min, 15 min and 30 min under dirty conditions at temperature 20 °C ± 1 °C by the dilution neutralization method **decreased** the number of viable yeast cells of *Candida albicans* ATCC 10231 and the number of mould spores of *Aspergillus brasiliensis (niger)* ATCC 16404by at least a 4 lg reduction.

* Product can only be tested at a concentration of 97% (RTU product) or less, as some dilution is always produced by adding the test organisms and interfering substance.

The tested concentrated product **GLOBACID SF 2%**, batch No. 16-322A, in the contact times 5 min, 15 min and 30 min under dirty conditions at temperature 20 °C ± 1 °C by the dilution neutralization method **decreased** on carriers the number of viable yeast cells of *Candida albicans* ATCC 10231 by at least a 4 lg reduction (EN 14562:2006).

The tested concentrated product **GLOBACID SF 2%**, batch No. 16-322A, in the contact time 30 min under dirty conditions at temperature 20 °C ± 1 °C by the dilution neutralization method **decreased** on carriers the number of mould spores of *Aspergillus brasiliensis (niger)* ATCC 16404 by at least a 4 lg reduction (EN 14562:2006).

Conclusion:
The product **GLOBACID SF 2%** is capable of reducing the number of viable vegetative yeast cells and the number of mould spores of the relevant organisms under defined conditions (EN 13624:2013 – min. 97%, 5 min, 15 min and 30 min, dirty, 20 °C) to the declared values, and consequently, can be called fungicidal.
The product **GLOBACID SF 2%** is capable of reducing the number of viable vegetative yeast cells of the relevant organism on carr iers under defined conditions (EN 14562:2006 – C.a., 100%, 5 min, 15 min and 30 min, dirty, 20 °C) to the declared values, and consequently, can be called yeasticidal on carriers.
The product **GLOBACID SF 2%** is capable of reducing the number of mould spores of the relevant organism on carriers under defined conditions (EN 14562:2006 – A.b., 100%, 30 min, dirty, 20 °C) to the declared values, and consequently, can be called fungicidal on carriers.

22.7.2019, Hodonín

Ing. Barbora Stoklásková, Leader of Study