

Work Order	3212.1_Rev2
Setup-Code	181029-10290-2801-01



Test Report

JIS Z 2801:2012 (Mod)

Antimicrobial products – Test for antimicrobial activity and efficacy

Test Object:

Coated Leneta Foil vs. Pseudomonas aeruginosa EDCC 5272



Work Order	3212.1_Rev2	
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Report on Findings

Client:

Decorative Products GmbH

Address:

Kurt-Fischer-Str. 32 22926 Ahrensburg

Work order no.:

3212.1_Rev2

Test object:

Coated Leneta Foil vs. Pseudomonas aeruginosa EDCC 5272

Sample description:

Coated Leneta Foil

Date of receipt of sample: 2018-Oct-22

Type of test:

JIS Z 2801:2012 Antimicrobial products - Test for antimicrobial activity

and efficacy

Test Germ:

Pseudomonas aeruginosa EDCC 5272

Test laboratory:

QualityLabs BT GmbH

Address:

Neumeyerstrasse 46a

90411 Nuremberg, Germany

Setup-Code:

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Sample material:

n.b.

No. of pages in report:

7

Report on findings Place and date of preparation:

to the client:

Recipient:

Nuremberg, 2019-Jan-25 Decorative Products GmbH

replaces the report from 2018-Nov-07

Laboratory Director:

Harald Gerauer, Laboratory Director

QualityLabs BT GmbH

Released:

Markus Zehe, Managing Director QualityLabs BT GmbH



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Declaration on Quality Assurance

This investigation was performed and supervised according to the standard operating procedure "SOP zu JIS Z 2801:2012 (Mod)" by QualityLabs BT GmbH. The laboratory and process are continually monitored by independent, external authorities, as well as by internal audits.

Archiving

A copy of the test report, a protocol of the measurement as well as the accompanying correspondence and business records are archived by QualityLabs BT GmbH. The retention period is at least 10 years.

Test description

Anti-bacterial activity is determined in accordance with a modified version of JIS Z 2801:2012.

During the test, a thin liquid-film containing the bacteria (1.25 x 10⁴ CFU / cm²) is applied directly to the test sample (Standard: 5 cm x 5 cm). To avoid desiccation a foil (Standard: 4cm x 4cm, Stomacher Bags) is applied. Immediately after inoculation, the bacteria from the reference sample are separated from the sample and the enveloping foil surfaces using ultrasound and vortex devices and the number of viable germs (CFU – colony-forming units) is determined (t₀ value). A further set of reference samples and samples given anti-microbial treatment is incubated with bacteria in a liquid-film and the enveloping foil in a damp environment at 37°C. After 24 hours, the bacteria are separated from the sample surfaces using ultrasound and vortex devices and the number of viable germs is determined (t₂₄ value).



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Assessment of antimicrobial activity

A logarithmic germ reduction of ≥ 3 log scales of the antimicrobial sample in comparison to the respective reference is used as assessment criterion to pass the antimicrobial test.

Germ reduktion [log scales]	Antibacterial activity
< 3	Not sufficient antimicrobial activity
≥ 3	Sufficient antimicrobial activity



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References to Testconditions

Te	stconditions	
Sample size	25	cm ²
Foil size	16	cm ²
Volume Inoculum	300	μl
Sample cleaning		-

References to deviations, preincubations, special test conditions

NONE



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Test Results

	Sample Name	Sample Code		to (cells/cm²)		ţ,	t ₂₄ (cells/cm²)		Reduction [%]	Log Reduction
_	Reference	102902310180011	5.3 x 10 ⁴	4.9 x 10 ⁴	4.2 × 10 ⁴	4.1 × 10 ⁵	3.5 x 10 ⁵	4.7 x 10 ⁵		Reference
2	2 Airdal 2,9%	102902310180012				< 1.0 x 10¹	< 1.0 × 10¹ < 1.0 × 10¹ < 1.0 × 10¹	< 1.0 x 10¹	> 99.99	4 <

*see "Interpretation of Results", page 6

Test strain	Pseudo	Pseudomonas aeruginosa EDCC 5272
Initial cell count inoculum / cm²		1.25 x 10 ⁴
Initials of the editor	HG	<i>M</i>
Measurement ended on		Nov-11-2018



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NONE

Interpretation of the results based on the measurements

NONE

Editor: Mr. Gerauer _____ Crosschecked: Mr. Zehe ______

References

JIS Z 2801:2012 Antimicrobial products - Test for antimicrobial activity and efficacy