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D-PL-14559-01-01
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Bad Bocklet, 24 November 2014

Test report (Version 01)

Sample: Sterillium med

L+S-Code: 0244490

Order: Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants following EN 14348

Order of 31.07.2014

Period of testing 30.09.2014 – 21.10.2014

The test results apply solely to the analysed samples.
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- Test Report (Version 01) on Sterillium med (Quantitative suspension test following EN 14348) - L+S-Code: 0244490 -
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Material and Method

Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants following EN 14348 (phase 2/step 1; date: April 2005)

1. Identification of the testing laboratory

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2. Identification of the sample

Product name: Sterillium med
Identification of the sample: VP 579/3E (Lot: 2673140217)
Active substances per 100 g: 85.0 g ethanol
Appearance of the product: liquid, colourless, clear
pH-value (100%): 8.30
Storage conditions: room temperature

3. Quantitative suspension test following EN 14348

Test strains: *Mycobacterium (M.) terrae* ATCC 15755
Mycobacterium (M.) avium ATCC 15769

Test concentrations: 97%, 80% and 10%

Contact times*: 15 sec, 30 sec and 60 sec

* Efficacy testing of the above mentioned hand disinfectant was performed at short contact times up to a max. of 60 sec. Therefore the neutralisation time within testing was only 10 sec.

Test temperature: 20°C ± 1°C

Organic loading: 0.03% albumin

Conditions of incubation: 21 days, 37°C ± 1°C



4. Test method and its validation

Test method: dilution neutralisation

Inactivation combination: 1.0% Tween 80, 3.0% saponin, 0.5% sodium-thiosulfat, 0.1% histidin in M/15 buffered phosphate

The results of the validation tests A and B proved the validity of the method in all cases. In the validation tests C an incomplete inactivation was detected in the undiluted mixtures of the neutralisation control, as well as the test neutralisation mixture of the test solutions. Accordingly, the dilution which demonstrated adequate inactivation – and thus valid results – was used in the calculation for microbial count reduction.

5. Requirements

According to EN 14348 a log reduction of > 4.0 log against mycobacteria is required.

6. Results

The results are stated in tables A (overview) and 1 - 2.

The results from the quantitative suspension test following EN 14348 with the product **Sterillium med** at test concentrations of 97%, 80% and 10% after contact times of 15, 30 and 60 seconds under clean conditions are stated in table A. Results, which passed the required criteria of > 4.0 log are given in bold numbers (for detailed results see tables 1 - 2).

Table A: Overview about the log-reductions of the quantitative suspension test

Product: Sterillium med Test strain: <i>M. terrae</i> Organic loading: 0.03% albumin			
Contact time/Concentration	97%	80%	10%
15 sec	> 5.15	> 5.28	< 1.61
30 sec	> 5.15	> 5.28	< 1.61
60 sec	> 5.15	> 5.28	< 1.61
Product: Sterillium med Test strain: <i>M. avium</i> Organic loading: 0.03% albumin			
Contact time/Concentration	97%	80%	10%
15 sec	> 5.18	3.60	< 1.70
30 sec	> 5.18	> 5.37	< 1.70
60 sec	> 5.18	> 5.37	< 1.70



7. Conclusion

In accordance with the requirements of the EN 14348 the product **Sterillium med** showed the required microbial reduction of > 4.0 log at a test temperature of 20°C with reference to the test strains *M. terrae* and *M. avium* at the below mentioned concentration-time relations.

Effective concentration-time relations are:

Clean conditions (0.03% albumin):

97%	15 sec contact time
97% and 80%	30 sec contact time
97% and 80%	60 sec contact time


The controls demonstrated the validity of the test procedure.

We recommend the following usage:

Mycobactericidal efficacy at clean conditions
(0.03% albumin)

undiluted at 15 sec contact time

24. NOV. 2014


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24. NOV. 2014


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