



# FORSCHUNGSINSTITUT HOHENSTEIN

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**Institute for Hygiene and Biotechnology**

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The certification is valid for the testing procedures indicated in the certificate - in the test report marked with \*.



DAP-PL-1603.00

Your Customer No.:  
47326

Contact person  
Dr. Mucha

Ext.  
271-433

Our ref.:  
dr.dh / se

Date  
March 24, 2006

## TEST REPORT

**Test Report No.: 06.8.3-0023**

**Client:** see address

**Test material:** sample HDF A

**Receipt of order:** 2006-02-20

**Examination period:** 2006-02-22 until 2006-03-22

**Name of sample:** See table

*The test report comprises 4 pages.*

The test results relate only to the test samples submitted. This test report must only be reproduced in full and not in extract form. Use of the test report in advertising or the publication of free interpretations of the test results is only allowed with the express permission of the test centre. Remaining test material will be destroyed after 3 months.

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RevSta 3 - Mai 2005

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## Test Aim

Testing of textiles on resistance against fungi.

## Methods

DIN EN 14119:2003-12: „Testing of textiles – Evaluation of the action of microfungi“

Test strains:            *Chaetomium globosum* Kunze-Fries    ATCC 6205, DSM 1962  
                              *Aspergillus niger* van Tieghem            ATCC 6275, DSM 1957

Method A2: growth test of fungi on the test fabric in a humidity chamber.

## Foundation of the assessment

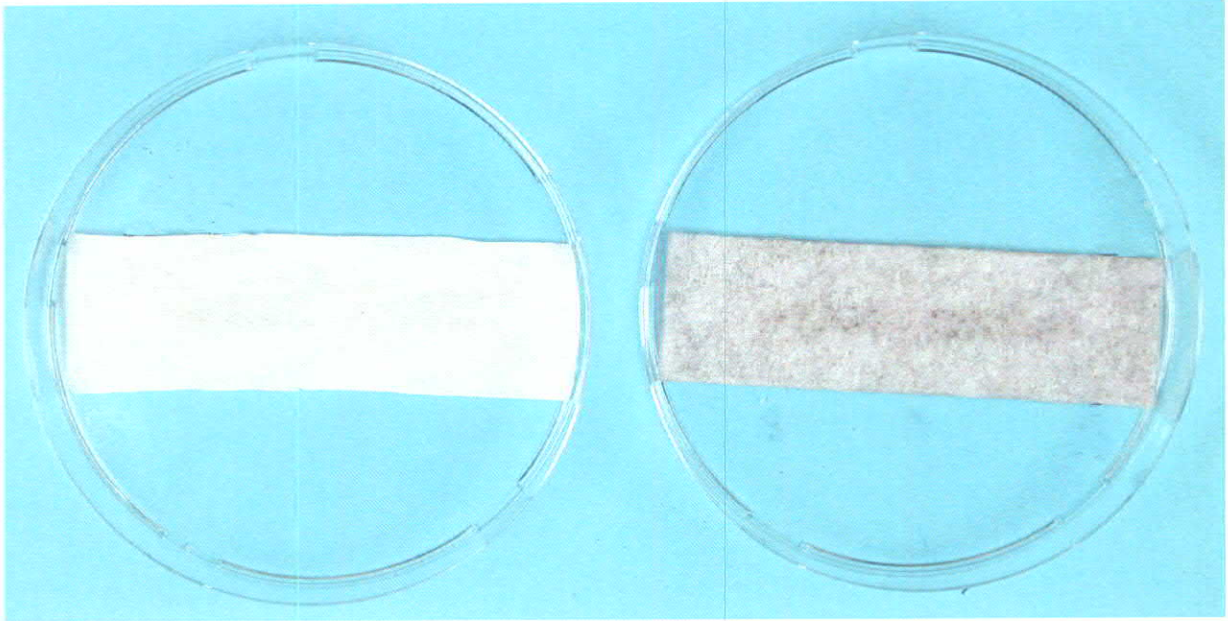
Visual evaluation of the fungal growth after 14 resp. 28 days.

**Table 1:** Evaluation schema

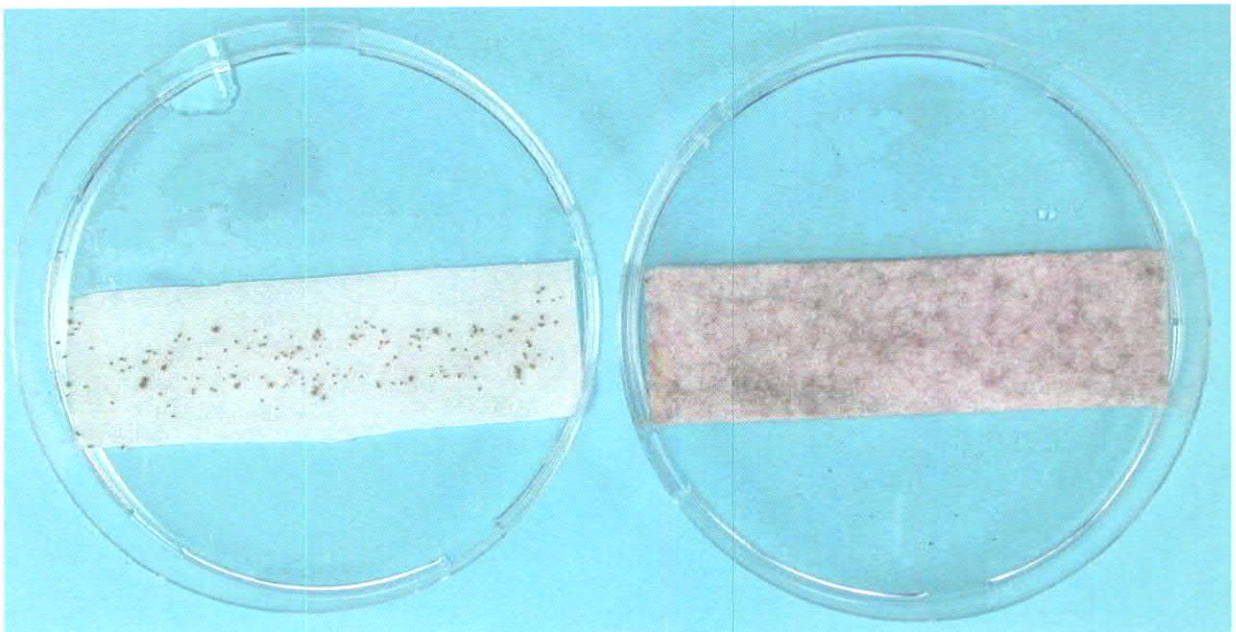
evaluation index	growth
0	no visible growth under the microscope (50x)
1	no visible growth with naked eye, but clearly visible under the microscope
2	visible growth with naked eye, $\leq 25\%$ in comparison with the control
3	visible growth with naked eye, $\leq 50\%$ in comparison with the control
4	extensive growth, $> 50\%$ in comparison with the control
5	massive growth, same as control



## Result



**Figure 1:** Control (left side) and test specimen (right side) at begin.



**Figure 2:** Control (left side) and test specimen (right side) after 28 days incubation in the humidity chamber.



**Figure 3:** Growth control of the test strains on agar plate.

## Evaluation of the test results

There was no visible growth of the test strains on the sample HDF A after 28 days incubation in the humidity chamber. The resistance of the test fabric against fungi corresponds to the evaluation index "0".

Schloss Hohenstein, March 24, 2006

Director of the Institute  
for Hygiene and Biotechnology

Dr. med. habil. Dirk Höfer



Head of the Laboratory  
for Hygiene and Biotechnology

Dipl.-Biol. Jutta Secker