

# Antimicrobial Activity

The various test methods are used to investigate the antimicrobial effectiveness of the test specimen against bacteria, moulds, yeasts or viruses. The tests are carried out in accordance with recognised standards for which accreditation has been obtained from the DAkkS using the test germs specified therein.

## This test is particularly suitable for

- Textiles
- Surfaces (plastics, metals, lacquers)
- Commodities (if flat surfaces are available or parts are suitable for testing)



## Test germs

- Antibacterial: *Staphylococcus aureus*, *Klebsiella pneumoniae*, *Escherichia coli*
- Antimycotic: mould fungi (*Aspergillus niger*, *Chaetomium globosum*, *Penicillium pinophilum*, *Paecilomyces variotii*, *Trichoderma virens*), yeast (*Candida albicans*)
- Antiviral: MS2 phage
- Further test germs on request

## Customer benefit

- Product optimization during development
- Consumer safety
- Proof of efficacy
- Advertising impact

## Testing standards

- Textiles: DIN EN ISO 20743 / AATCC 100 / ASTM E 2149
- Surfaces: ISO 22196 / ISO 846 part B
- In addition, further tests are offered according to international standards

## Marketing Instruments – Labels and Certificates

On passing the test, the product may be awarded the certificate “Antibacterial Activity” or “Antimicrobial Activity” and/or the Quality Label “Antibacterial”/ “Antimicrobial” (validity: 1 year).

The term “Antibacterial” is used for a significant to strong activity against gram-positive and gram-negative bacteria, the term “Antimicrobial” if at least two of three parameters (antibacterial/antimycotic/antiviral) are achieved.

## Test sample requirements

### General

- Test samples will be examined as sent in, unless otherwise agreed.  
On customers request tests can also be carried out after a use simulation (e.g. specified number of reprocessing cycles).

### Quantity of material

- Depending on the test. Required quantity is stated in the offer.

### Duration of the test

- Generally two weeks for tests with bacteria, yeasts or viruses and about four weeks with mould fungi;  
the date will be confirmed upon receipt of the test sample.

### Test criteria

- According to the normative specifications.
- As a rule, at least 2 log steps/99% germ reduction in the case of antibacterial/antiviral and a 75% reduction in growth in the case of antifungal.