

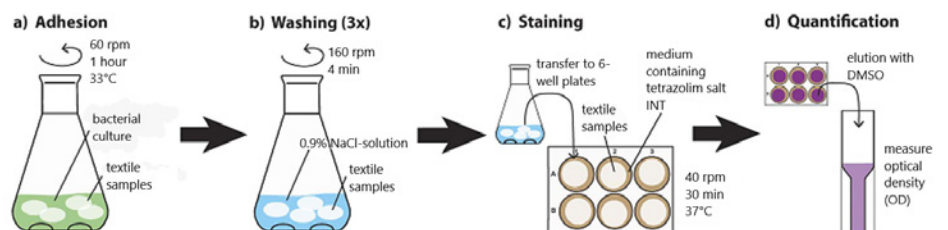
TESTING THE ANTIADHESIVE PROPERTIES OF TEXTILE COATINGS⁺

Textile hygiene is an important part of general hygiene measures in the hospital field, in the public and domestic area. An insufficient textile hygiene can lead to undesired problems like a health-risk or odour formation. Antiadhesive coatings can bring a benefit, without having the disadvantages of certain antimicrobial textile coatings as the release of harmful substances. The INT-Assay is able to measure the antiadhesive properties of textiles and is now available as test service.



Antiadhesive action – INT-Assay

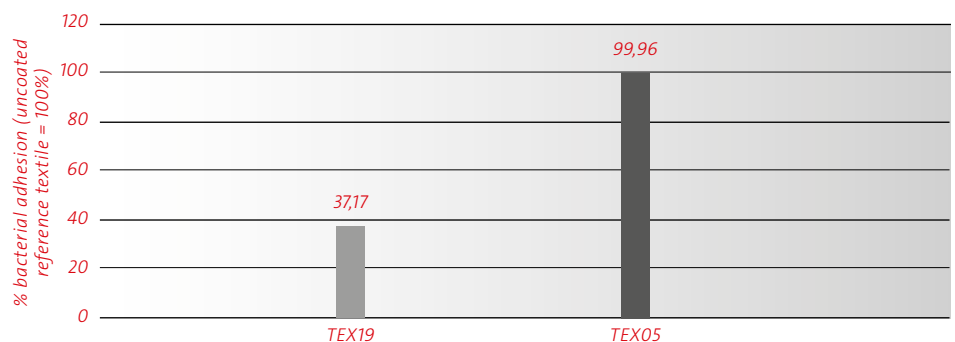
The INT-Assay assesses the primary adhesion of *Staphylococcus aureus* on textiles as well as removability of bacterial cells during washing. Antiadhesive action is measured via the metabolic activity of the attached bacteria on the textiles.



Antiadhesive action – results

An antiadhesive action is expressed as % of bacterial adhesion in comparison to an uncoated reference textile. The coated sample Tex19 shows a good antiadhesive action with only 37 % bacterial adhesion in comparison to the uncoated reference textile (100%) whereas the coated sample Tex05 showed no antiadhesive action.

Bacterial adhesion on textile samples



Literature

Stiefel, P., et al. (2016). *Nature, Scientific Reports* | 6:39635 | DOI: 10.1038/srep39635