

# Clima

medi

## Fresh®

anti-bacterial treatment

Medi's Clima Fresh® technology is infused into yarns to ensure long-lasting anti-bacterial effect. Clima Fresh prevents bacteria and micro-organisms from colonizing the fabric or replicating so unpleasant odors are prevented. The anti-bacterial effect is achieved by a special spinning process and not by a subsequent chemical treatment, so it will never wash out.

medi orthopedic products  
with Clima Fresh®  
Levamed®

Genumedi®

PT Genumedi®



## Fresh®

### anti-bacterial treatment study results

Our latest test of Clima Fresh was done 2016 in France at IFTH (Institut de textile et habillement = textile and clothing institute).

The goal was a determination of the antibacterial activity of textile products according to the Transfer method NF EN ISO 20743 (2013) after washing according to NF EN ISO 6330 (2012).

The tested textile products were the knitwear items with Clima Fresh, together with an IFTH control fabric and an untreated neutral medi knitwear.

Two bacteria were selected to test antibacterial activity as part of the standard:

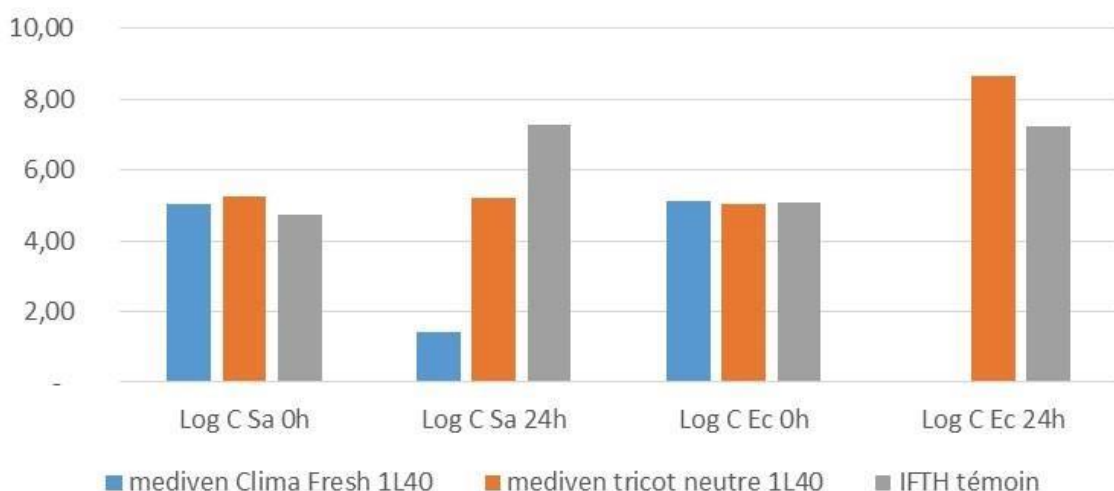
- Staphylococcus aureus strain ATCC 6538, noted Sa in the present synthesis,
- Escherichia coli strain ATCC 8739, noted Ec.

According to the standard NF EN ISO 6330 (2012) the specimen to be tested were washed 100 times at the following temperature: 40°C – cycle 4N, with the detergent ECE 98 and 2 washing cycles without detergent and ballast at the following temperature: 30°C cycle 3M.

Explained graphically:

After 1x washing, 5x washing and 100x washing knitwear with Clima Fresh (blue), the untreated neutral medi knitwear (orange) and the IFTH control fabric (grey) were tested and compared regarding antibacterial activity.

After 0 hours all three are treated with the same bacteria, after 24 hours the concentration of bacteria was measured.



Several conclusions can be drawn on the basis of this study:

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- The mediven Clima Fresh textile retains excellent antibacterial efficacy after 100 washes at 40°C
- The mediven Clima Fresh textile was successful on the 2 bacteria tested, Staphylococcus aureus and Escherichia coli
- The textile structure of the medi knitwear naturally limits the development of certain bacteria such as Staphylococcus aureus under the test conditions.

## Comfort®

breathable, moisture wicking fabrics

Medi's Clima Comfort® is an elaborately worked knit that ensures skin stays comfortable and dry. Moisture is quickly and reliably absorbed on the inside and transported to the outside to evaporate. The result: Patients will find medi soft supports comfortable to wear – even in summer.

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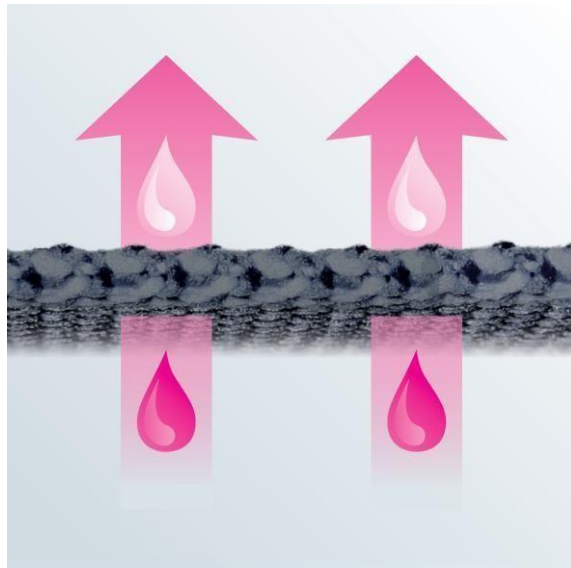
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**Clima Comfort**