

NEW GENERATION SILVER TECHNOLOGY

Advances have been made in the field of anti-microbial chemistry and, following extensive research and development, Mosaic by Skopos have successfully developed and upgraded to the next generation of silver technology. The new, improved anti-microbial treatment can be applied onto both cotton and polyester fabrics; it is based on silver ions and effectively inhibits the growth of micro-organisms providing healthcare establishments with a second line of defence.

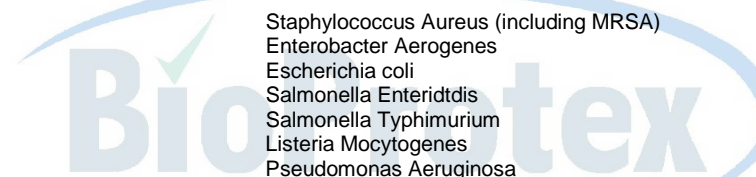
BioProtex WORKS ON COTTON AND POLYESTER

Utilising technology already used as an anti-microbial treatment in the healthcare and branded sportswear industries, but adapted for use on fabrics, **BioProtex** is applied during the printing and finishing process and creates an active concentration of silver ions on the surface, binding with the cell surface and causing disruption in cellular membrane function. The silver targets the critical proteins and inhibits the growth of bacteria. The treatment penetrates deep into the textile construction. So it works just as well on both sides of the fabric



PERMANENT, DURABLE AND ENVIRONMENTALLY FRIENDLY – CERTIFIED

Mosaic fabrics can be washed at 71°C in compliance with NHS thermal disinfection laundering requirements without reducing the effectiveness of the anti-microbial agent. Mosaic has conducted wash trials and an independent laboratory has certified the effectiveness of **BioProtex** after 50 wash cycles through a hospital laundry. Extensive independent testing has been conducted on a wide range of bacteria.



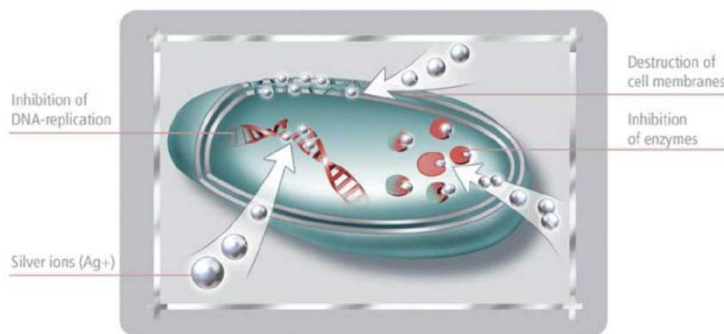
- Staphylococcus Aureus (including MRSA)
- Enterobacter Aerogenes
- Escherichia coli
- Salmonella Enteritidis
- Salmonella Typhimurium
- Listeria Mocytoenes
- Pseudomonas Aeruginosa

Testing certificate (JISL 1902) is available on request
Only recycled silver is used to produce silver ions and the amount is very low so the environmental burden is minimal as “free ions” quickly react with the other organic materials. When combining this fact with the durability of **BioProtex** over the lifetime of the product its environmental impact is minimised.

SAFE USING SILVER

Many anti-microbial products involve the application of chemicals as the active anti-microbial agent.

BioProtex is safe to use as its major ingredient is silver – a natural element, already employed extensively within the healthcare sector as an anti-microbial in medical applications such as wound dressings. **BioProtex** is the next generation in silver technology, using recycled silver ions in small amounts and applying them to synthetic and natural fibres allowing more extensive use in clothing as well as furnishings.



Silver does not function in the same way as antibiotics and there is no evidence that bacteria can become resistant to **BioProtex** - it will remain as effective tomorrow as it does today.

BioProtex uses small amounts of recycled silver and no chemical anti-microbials. It is several times bigger than a nano particle, giving a relatively large active surface and has gone through rigorous safety testing according to OECD and FDA standards. It is completely safe to use in direct body contact, making it one of the safest products on the market. Solution listed and approved with EU Biocide directive.

