

Cleaning process for recycled fibres (NordicBio)

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Objectives of the cleanliness studies

Used textiles might have been contaminated during use, collecting and transportation →

- risk for personnel in recycling process
- limit the possibilities for utilize materials in selected applications

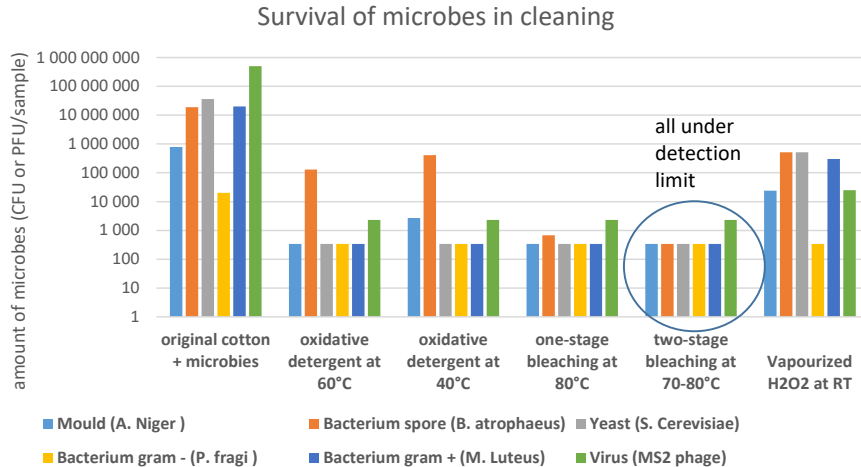
Objectives:

Develop cleaning i.e. disinfection of waste textiles in order to use them in laminated nonwoven products suitable for bed sheet and absorptive products in hospitals

- Choice of cleaning procedures gentle for textile strength properties
 - idea to use laundry detergents
- Discoloration of textiles as an additional benefit if possible



Main outcomes of the cleaning test



- Disinfection should be done either with over 60°C or lower with oxidative chemicals/ laundry detergents
- 60°C temperature with oxidative detergent reduces the content of other microbes effectively, except bacterium pores (required 80°C)
- Disinfection and bleaching treatments can be harmful for the mechanical properties of textile material, especially combination of high temperature and high alkali
- Selection of disinfection (cleaning) conditions according to waste textile material recommended