

Enzyme crude extract
8,411 U/mg

Heat treatment
19,701 U/mg

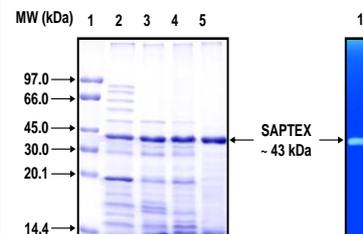
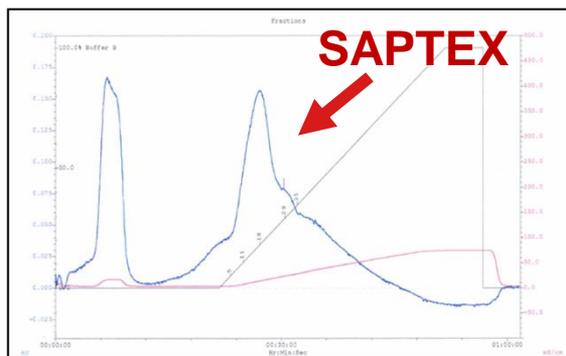
(NH₄)₂SO₄ precipitation-dialysis
28,181 U/mg

FPLC (UNO Q-12)
78,500 U/mg

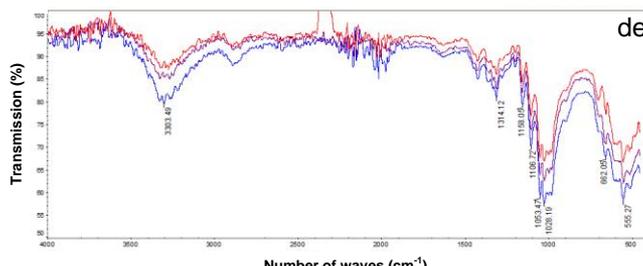
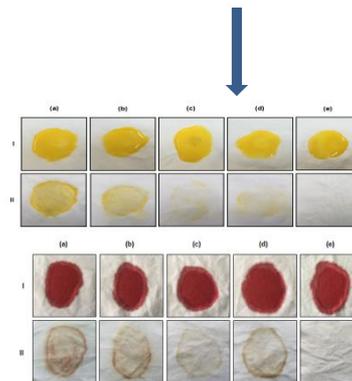
Protease
SAPTEX

SAPTEX use in textile fibres processing

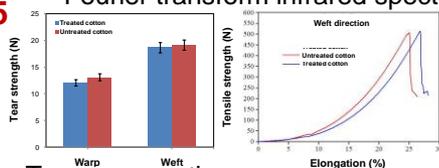
Extracellular protease activity = 9000 U/mL



Purification and MW determination of SAPTEX

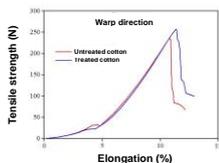


Fourier transform infrared spectroscopy analysis.

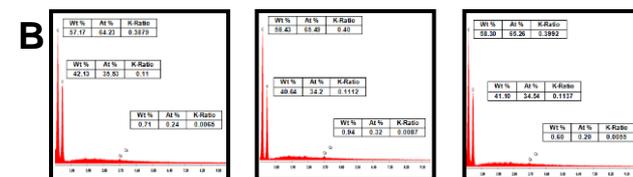
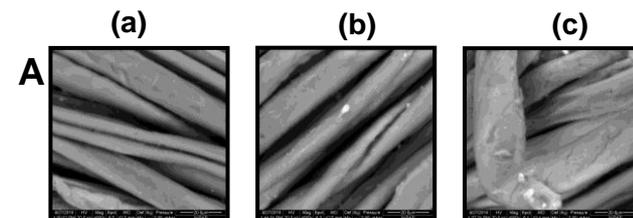


Tear-propagation resistance ISO 13937

Plots of the maximum breaking strength and elongation at break by GrabTest2 (ISO 13934-2)



The influence of the treatment on the tensile strength of the weft support.



Energy (keV)

Energy (keV)

Energy (keV)

A: Treated cloths with SAPTEX enzyme. (B) Physico-chemical evaluation of the SAPTEX performance on textile substrates and spectrophotometry analysis with dispersive energy. (a) Control; (b) Blood-stained cloth, and (c) Egg-stained cloth.

Penicillium chrysogenum strain X5



An ascomycete fungus was isolated from a contaminated red coral lens