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Fabrication of Antimicrobial Electrospun Nanofibers using Cupressus pods extracted pitch

Over the last 10 years great research interest has been directed towards antibacterial Nanofibers produced by Electrospinning from natural plant extract. The Cupressus fruits are one of the nonedible fruit which is not utilized for any specific application. In this research extract of Cupressus pods was used to develop Antibacterial Nanofibers as the Cupressus fruits are natural source and ecofriendly. Currently many finishes are available for textiles to introduce antimicrobial properties but offer poor adhesion properties. Cupressus plants found mainly in warm temperature regions in the Northern Hemisphere, including western North America, where as in Pakistan they are found in Quetta, Swat etc. In our exploration Pitch was extracted using methanol as organic solvent to produce Nano-fibers. As the Cupressus extract is antimicrobial in nature it was assumed that produced fibers will provide worthy adhesion properties. The antibacterial property of Nano fibers would be analyzed according to AATCC 147.

Key words

Cupressus, Nanofibers, Electro Spinning.

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