

Triphala incorporated PCL nanomembrane as wound dressing material for infection control

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In this study, we have made an attempt to incorporate triphala into PCL to develop nanofiber for sustained drug release for infection control. The electrospun mat was characterized by SEM, FTIR and TGA. Further, the nanomembrane shows broad spectrum antimicrobial activity and good blood compatibility. The burst and sustained release of drug helps to control infection throughout the healing process. These results obtained shows the promising effect of triphala PCL as wound dressing material to control infection and to enhance wound healing with antioxidant property.

Keywords: Triphala, polycaprolactone, composite, nanofibrous mat, antimicrobial.