

ABSTRACT

Keratin are widely utilized in the cosmetic industry to enhance hair growth and appearances. In recent years, Keratin has been extensively studied for different biomedical applications such as tissue engineering and wound healing. There is a growing interest in the utilization of keratin due to its ability to work as an extracellular matrix, its ability to absorb and hold great amount of water and it can be characterized by its hydrophobicity. This research aims to develop a Keratin-based hydrogel for the treatment of diabetic foot ulcers, alongside analyzing the different potential applications of Keratin based hydrogel.