

## Preparation and properties of collagen/hyaluronic acid (HA) composite material

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Collagen is one of biomaterials, composed with fibrous protein component. Properties of modified collagen are important for biocompatible and biodegradable application and in the reaction ability with living tissues. The physiological activity of hyaluronic acid (HA) polymer makes it a promising material for a variety of applications.

The focus of this study is to show the preparation and properties of collagen/HA composite material. The development of collagen/HA composite with improved thermal stability, mechanical stability and preservation of moisture against degradation and biochemical functionality may enhance their application to tissue engineering. The change of properties of collagen/HA composite are investigated by FT-IR, DSC, TGA, UTM, water uptake and SEM.