

## Surface properties of modified collagen material by water soluble polymer

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Collagen is one of biomaterials, composed with fibrous protein component. So, they become responsible for the functional integrity of tissues such as bone, cartilage, and skin. It is possible to obtain the collagen fiber, type(I), originating from the porcine skin by the biological and separational purification method. The focus of this study is to show the physical properties of composite collagen fiber surface. Properties of composite collagen are important for biocompatible and biodegradable application and in the reaction ability with living tissues. The composite material of collagen and water soluble biopolymer such as hyaluronic acid(HA) are the most widely used in tissue engineering and implantable material as medicine care supplies. In this studies, the change of surface properties of collagen-HA composite are investigation.