

견피브로인/S-카르복시메틸화 케라틴 블렌드막의
표면 특성 및 항혈전성

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Silk fibroin was dissolved in calcium chloride/ethanol/water mixture(1/2/8 in mole ratio) at 70°C for 4 hr. S-caboxymethylated keratin(SCMK) was obtained from Merino wool according to the procedure of O'Donnell and Thompson. Blend films were prepared by casting 2% formic acid solution of the samples onto a Teflon plate. The films were treated with 50% aqueous methanol solution for 30 min. at room temperature. The "in virto" blood clotting test results were analyzed in connection with the surface characteristics of the films. The antithrombogenicity of the films was mainly affected by the amino acid composition of the film. 50/50 (w/w) blend film having the highest polar force showed better antithrombogenicity than the others.