

Silk Sericin Prepared from Electrolyzed Alkali Water

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This studies was carried out to develop the new silk degumming method by electrolyzed alkaline water on the silk degumming process. And it could be collect pure sericin from the degumming water, because of the degumming water by eleectrolyzed alkaline water was not contaminated by soap.

The cohesive power of silk sericin in the degumming water were different by degumming method(eleectrolyzed alkali water method and soap and alkaline bath method) and collecting methods(adhesive agent method and isoelectric point method). The collection ratio of silk from degumming water was higher in hot air drying method compare to that of freeze vacuum drying method. It is suggested that some of silk sericin was adsorbed by vacuum dryer on the freeze vacuum drying process,

The collected sericin prepared from freeze vacuum drying method was soft powder and have hygroscopic property. but the collected sericin prepared from hot air drying method was solid lump.

The aluminium ion of collected silk sericin was 100~200 times higher in adhesive agent method compare to that of isoelectric point method. However, the amino acid composition of collected silk sericin was almost same between collecting methods.