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Development of water-soluble chitosan powder and its antimicrobial effect against inoculated *Listeria innocua* NRRL B-33016 on shrimp

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- Water-soluble chitosan can be produced by enzymatic hydrolysis and ultrafiltration.
- Water-soluble chitosan possesses low viscosity.
- Water-soluble chitosan has antimicrobial activity against *Listeria innocua*.
- Water-soluble chitosan solution can reduce microbial loads on the surface of shrimp.

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