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Title: Improving the water solubility and antimicrobial activity of silymarin by nanoencapsulation

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Highlights

- > Silymarin was nanoencapsulated using chitosan and γ -poly (glutamic acid).
- > The solubility of silymarin was significantly increased by nanoencapsulation.
- > The antimicrobial activity of silymarin effectively improved by nanoencapsulation.
- > Film containing silymarin nanoparticles could control growth of food microorganism.

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