Yinghao Fu, J Material Sci Eng 2018, Volume 7
DOI: 10.4172/2169-0022-C7-110

Facile tailoring the morphology and water-solubility of chitosan

Yinghao Fu
Huaqiao University, China

The solubility of chitosan is depended on its morphology mainly when its chemical structure was fixed. In view of this, we intended to modulate the water-solubility through tuning its morphology. Both the entanglement and crystalline degrees of chitosan could be varied through a common dissolution and precipitation processes, which resulted in the change of the water-solubility of chitosan accordingly. Several possible morphology models were presented for various samples obtained by simply changing the amount of solvents and precipitants. As a result, chitosan was able to be dissolved in water in absence of acid.

yinghao-fu@qq.com

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