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Title: In situ synthesis of new magnetite chitosan/carrageenan nanocomposites by electrostatic interactions for protein delivery applications

Author: Jie Long Xiaoqin Yu Enbo Xu Zhengzong Wu  
Xueming Xu Zhengyu Jin Aiquan Jiao



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## Highlights

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- Magnetite chitosan/carrageenan nanocomposites were prepared by in situ method.

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- Magnetic response of nanocomposites to an applied magnetic field was enhanced.

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- Magnetite nanocomposites with excellent BSA adsorption capacity were obtained.

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- BSA loaded magnetite nanocomposites released in simulated intestinal medium.

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