

Fabrication of Magnetically Modified *Chlorella pyrenoidosa* Microalgae Using Poly(diallyldimethyl ammonium)-stabilised Magnetic Nanoparticles

Rozhina E., Evtugyn V., Danilushkina A., Fakhrullin R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016, Springer Science+Business Media New York. We report fabrication of magnetically responsive *Chlorella pyrenoidosa* cells using poly(diallyldimethyl ammonium chloride)-stabilised iron oxide nanoparticles. The nanoparticles were characterised using transmission electron microscopy and dark-field microscopy. The interaction of magnetic nanomaterials with *C. pyrenoidosa* cells was studied, and high biocompatibility of these nanomaterials was demonstrated.

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Keywords

Cell surface engineering, *Chlorella pyrenoidosa*, Magnetic modification, Magnetic nanoparticles, TEM