

Accepted Manuscript

Title: Molecular Encapsulator on the Surface of Magnetic Nanoparticles. Controlled Drug Release From Calcium Ferrite/Cyclodextrin–Tethered Polymer Hybrid

Authors: Sivaraj Ramasamy, Beniya Samathanam, Helfried Reuther, Muthukumar Nadar Meenakshi Subbaraman Adyanpuram, Israel Vijayaraj Muthu Vijayan Enoch, Kay Potzger



PII: S0927-7765(17)30698-7
DOI: <https://doi.org/10.1016/j.colsurfb.2017.10.048>
Reference: COLSUB 8929

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 13-5-2017
Revised date: 3-10-2017
Accepted date: 17-10-2017

Please cite this article as: Sivaraj Ramasamy, Beniya Samathanam, Helfried Reuther, Muthukumar Nadar Meenakshi Subbaraman Adyanpuram, Israel Vijayaraj Muthu Vijayan Enoch, Kay Potzger, Molecular Encapsulator on the Surface of Magnetic Nanoparticles. Controlled Drug Release From Calcium Ferrite/Cyclodextrin–Tethered Polymer Hybrid, *Colloids and Surfaces B: Biointerfaces* <https://doi.org/10.1016/j.colsurfb.2017.10.048>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Molecular Encapsulator on the Surface of Magnetic Nanoparticles. Controlled Drug Release From Calcium Ferrite / Cyclodextrin–Tethered Polymer Hybrid

Sivaraj Ramasamy,^a Beniya Samathanam,^b Helfried Reuther,^c Muthukumar Nadar Meenakshi Subbaraman Adyanpuram,^d Israel Vijayaraj Muthu Vijayan Enoch,^{a,b*} Kay Potzger^{c*}

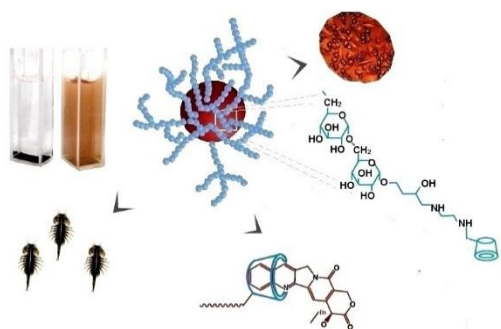
^aChemistry Research Lab, ^bNanotoxicology Research Lab, Department of Science & Humanities, ^dDepartment of Biosciences & Technology, School of Engineering & Technology, Karunya University, Coimbatore 641114, Tamil Nadu, India.

^cHelmholtz-Zentrum Dresden-Rossendorf, Institut für Ionenstrahlphysik und Materialforschung, Abteilung Magnetismus, Bautzner Landstrasse 400, 01328 Dresden.

*Corresponding authors: drisraelenoch@gmail.com (IVMVE), k.potzger@hzdr.de (KP).

Tel.: +91 94868 91717 (IVMVE).

Graphical abstract



Highlights

- 75 nm-sized calcium ferrite nanoparticles are prepared as drug delivery agents.

Download English Version:

<https://daneshyari.com/en/article/6980770>

Download Persian Version:

<https://daneshyari.com/article/6980770>

[Daneshyari.com](https://daneshyari.com)