## **Accepted Manuscript**

Fabrication of alginate/humic acid/Fe-aminoclay hydrogel composed of a grafted-network for the efficient removal of strontium ions from aqueous solution

Sang Rak Choe, Yuvaraj Haldorai, Sung-Chan Jang, Rethinasabapathy Muruganan Young-Chul Lee, Young-Kyu Han, Changhyun Roh, Yun Suk Huh

PII: S2352-1864(17)30171-2

DOI: https://doi.org/10.1016/j.eti.2017.12.008

Reference: ETI 185

To appear in: Environmental Technology & Innovation

Received date: 21 April 2017 Revised date: 9 December 2017 Accepted date: 27 December 2017

Please cite this article as: Choe S.R., Haldorai Y., Jang S., Muruganantham R., Lee Y., Han Y., Roh C., Huh Y.S., Fabrication of alginate/humic acid/Fe-aminoclay hydrogel composed of a grafted-network for the efficient removal of strontium ions from aqueous solution. *Environmental Technology & Innovation* (2018), https://doi.org/10.1016/j.eti.2017.12.008

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.

## **ACCEPTED MANUSCRIPT**

Fabrication of alginate/humic acid/Fe-aminoclay hydrogel composed of a grafted-network for the efficient removal of strontium ions from aqueous solution

Sang Rak Choe,<sup>1</sup> Yuvaraj Haldorai,<sup>2</sup> Sung-Chan Jang,<sup>1,3</sup> Rethinasabapathy Muruganantham,<sup>1</sup> Young-Chul Lee,<sup>4</sup> Young-Kyu Han,<sup>3</sup> Changhyun Roh,<sup>3,5</sup>\* and Yun Suk Huh<sup>1</sup>\*

<sup>&</sup>lt;sup>1</sup> Department of Biological Engineering, Biohybrid Systems Research Center (BSRC), Inha University, 100, Inha-ro, Incheon, 22212, Republic of Korea

<sup>&</sup>lt;sup>2</sup> Department of Energy and Materials Engineering, Dongguk University-Seoul, Seoul 100-715, Republic of Korea

<sup>&</sup>lt;sup>3</sup> Biotechnology Research Division, Advanced Radiation Technology Institute (ARTI), Korea Atomic Energy Research Institute (KAERI), 29, Geumgu-gil, Jeongeup-si, Jeonbuk, 56212, Republic of Korea

<sup>&</sup>lt;sup>4</sup> Department of BioNano Technology, Gachon University, 1342 Seongnamdaero, Seongnamsi, Gyeonggi-do 13120, Republic of Korea

<sup>&</sup>lt;sup>5</sup> Radiation Biotechnology and Applied Radioisotope Science, University of Science and Technology (UST), 217 Gajeong-ro, Daejeon 34113, Republic of Korea E-mail: chroh@kaeri.re.kr (C. Roh); yunsuk.huh@inha.ac.kr (Y.S. Huh)

## Download English Version:

## https://daneshyari.com/en/article/8858085

Download Persian Version:

https://daneshyari.com/article/8858085

Daneshyari.com