

Accepted Manuscript

4-chlorophenol biodegradation facilitator composed of recombinant multi-bio-catalysts immobilized onto montmorillonite

Oh Sung Kwean, Su Yeon Cho, Jun Won Yang, Wooyoun Cho, Sungyoon Park, Yejee Lim, Min Chul Shin, Han-Suk Kim, Joonhong Park, Han S. Kim

PII: S0960-8524(18)30414-0
DOI: <https://doi.org/10.1016/j.biortech.2018.03.066>
Reference: BITE 19705

To appear in: *Bioresource Technology*

Received Date: 30 January 2018
Revised Date: 11 March 2018
Accepted Date: 12 March 2018

Please cite this article as: Kwean, O.S., Cho, S.Y., Yang, J.W., Cho, W., Park, S., Lim, Y., Shin, M.C., Kim, H-S., Park, J., Kim, H.S., 4-chlorophenol biodegradation facilitator composed of recombinant multi-biocatalysts immobilized onto montmorillonite, *Bioresource Technology* (2018), doi: <https://doi.org/10.1016/j.biortech.2018.03.066>

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.



Manuscript title:

4-chlorophenol biodegradation facilitator composed of recombinant multi-biocatalysts immobilized onto montmorillonite

Manuscript Number: BITE-D-18-00763R2

Revised version

March 11, 2018

Original version submitted to *Bioresource Technology*

Oh Sung Kwean^a, Su Yeon Cho^a, Jun Won Yang^a, Wooyoun Cho^a, Sungyoon Park^a, Yejee Lim^a, Min Chul Shin^{b,c}, Han-Suk Kim^c, Joonhong Park^d, and Han S. Kim^{a,*}

^aCivil and Environmental Engineering
Konkuk University
120 Neungdong-ro, Gwangjin-gu
Seoul 05030, Korea

^bEnvironmental Engineering
Chonbuk National University
567 Baekje-daero, Deokjin-gu
Jeonju Jeollabuk-do 54896, Korea

^cThe Soil and R&D Center
H-Plus Eco Ltd.
222 Seokchonhosu-ro, Songpa-gu
Seoul 05610, Korea

^dCivil and Environmental Engineering
Yonsei University
50 Yonsei-ro, Seodaemun-gu
Seoul 03722, Korea

* Corresponding author
E-mail: hankim@konkuk.ac.kr
Telephone: +82-2-450-4092
Facsimile: +82-2-450-3542

Download English Version:

<https://daneshyari.com/en/article/7067316>

Download Persian Version:

<https://daneshyari.com/article/7067316>

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