

Author's Accepted Manuscript

Removal of lead by exopolysaccharides from *Paenibacillus peoriae* strain TS7 isolated from rhizosphere of durum wheat

Samira Fella-Temzi, Drifa Yalaoui-Guellal, Miguel A. Rodriguez-Carvajal, Djellali Belhadi, Khodir Madani, Yahia Kaci



www.elsevier.com/locate/bab

PII: S1878-8181(18)30469-9
DOI: <https://doi.org/10.1016/j.bcab.2018.09.016>
Reference: BCAB873

To appear in: *Biocatalysis and Agricultural Biotechnology*

Received date: 16 July 2018
Revised date: 13 September 2018
Accepted date: 14 September 2018

Cite this article as: Samira Fella-Temzi, Drifa Yalaoui-Guellal, Miguel A. Rodriguez-Carvajal, Djellali Belhadi, Khodir Madani and Yahia Kaci, Removal of lead by exopolysaccharides from *Paenibacillus peoriae* strain TS7 isolated from rhizosphere of durum wheat, *Biocatalysis and Agricultural Biotechnology*, <https://doi.org/10.1016/j.bcab.2018.09.016>

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 galley proof before it is published in its final citable 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.

Removal of lead by exopolysaccharides from *Paenibacillus peoriae* strain TS7 isolated from rhizosphere of durum wheat

Samira Fella-Temzi ^{1*}, Drifa Yalaoui-Guellal ¹, Miguel A. Rodriguez-Carvajal², Djellali Belhadi³, Khodir Madani¹, Yahia Kaci⁴

¹Laboratory of Biomathematics, Biochemistry, Biophysics and Scientometry, Faculty of Nature and Life Sciences, University of Bejaia, 06000 Bejaia, Algeria.

²Department of Organic Chemistry, Faculty of Chemistry, University of Seville, 41012 Seville, Spain

³Microbial Ecology Laboratory, Faculty of Nature and Life Sciences, Bejaia University, 06000 Bejaia, Algeria.

⁴Laboratory of Biology and Physiology of Organisms, Faculty of Biological Sciences USTHB, BP 132 El Alia, Algiers, Algeria

*Corresponding author. Tel: +213 5 59 48 96 16; fax: +213 34 81 37 10; sam091977@yahoo.fr

Abstract

This work aimed to study the removal of heavy metal ions in aqueous solution by extracellular polysaccharides (EPS) extracted from bacterial strain coded TS7. The 16S ribosomal RNA gene sequencing allowed us to identify this strain as *Paenibacillus peoriae*.

Download English Version:

<https://daneshyari.com/en/article/11007665>

Download Persian Version:

<https://daneshyari.com/article/11007665>

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