

Accepted Manuscript



Acute toxicity of selenate and selenite and their impacts on oxidative status, efflux pump activity, cellular and genetic parameters in earthworm *Eisenia andrei*

Sandra Ečimović, Mirna Velki, Rosemary Vuković, Ivna Štolfa Čamagajevac, Anja Petek, Rebeka Bošnjaković, Magdalena Grgić, Péter Engelmann, Kornélia Bodó, Vlatka Filipović-Marijić, Dušica Ivanković, Marijana Erk, Tatjana Mijošek, Zdenko Lončarić

PII: S0045-6535(18)31570-4

DOI: 10.1016/j.chemosphere.2018.08.095

Reference: CHEM 22013

To appear in: *Chemosphere*

Received Date: 23 May 2018

Accepted Date: 18 August 2018

Please cite this article as: Sandra Ečimović, Mirna Velki, Rosemary Vuković, Ivna Štolfa Čamagajevac, Anja Petek, Rebeka Bošnjaković, Magdalena Grgić, Péter Engelmann, Kornélia Bodó, Vlatka Filipović-Marijić, Dušica Ivanković, Marijana Erk, Tatjana Mijošek, Zdenko Lončarić, Acute toxicity of selenate and selenite and their impacts on oxidative status, efflux pump activity, cellular and genetic parameters in earthworm *Eisenia andrei*, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.08.095

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.

1 **Acute toxicity of selenate and selenite and their impacts on oxidative status, efflux pump activity,**
2 **cellular and genetic parameters in earthworm *Eisenia andrei***

3
4 Sandra Ečimović¹, Mirna Velki^{1*}, Rosemary Vuković¹, Ivna Štolfa Čamagajevac¹, Anja Petek¹, Rebeka
5 Bošnjaković¹, Magdalena Grgić¹, Péter Engelmann², Kornélia Bodó², Vlatka Filipović-Marijić³, Dušica
6 Ivanković³, Marijana Erk³, Tatjana Mijošek³, Zdenko Lončarić⁴

7
8
9 ¹Department of Biology, Josip Juraj Strossmayer University of Osijek, Cara Hadrijana 8/A, 31000
10 Osijek, Croatia

11 ²Department of Immunology and Biotechnology, Clinical Center, Medical School, University of Pécs,
12 Szigeti u. 12, Pécs H-7643, Hungary

13 ³Laboratory for Biological Effects of Metals, Division for Marine and Environmental Research, Ruđer
14 Bošković Institute, P.O. Box 180, 10002 Zagreb, Croatia

15 ⁴Faculty of Agriculture, Josip Juraj Strossmayer University of Osijek, Kralja Petra Svačića 1d, 31000
16 Osijek, Croatia

17
18 *Corresponding author

19 Mirna Velki, PhD, assistant professor
20 Josip Juraj Strossmayer University of Osijek

21 Department of Biology

22 Cara Hadrijana 8/A, 31000 Osijek

23 Croatia

24 E-mail: mirna.velki@gmail.com ; mvelki@biologija.unios.hr

25

26 Sandra Ečimović, sandra@biologija.unios.hr

27 Rosemary Vuković, rosemary@biologija.unios.hr

28 Ivna Štolfa Čamagajevac, istolfa@biologija.unios.hr

29 Anja Petek, anja.petek1@gmail.com

30 Rebeka Bošnjaković, rebekabosnjakovic94@gmail.com

31 Magdalena Grgić, magdalena.grgic10@gmail.com

32 Péter Engelmann, engelmann.peter@pte.hu

33 Kornélia Bodó, bodo.kornelia@pte.hu

34 Vlatka Filipović-Marijić, vf Filip@irb.hr

35 Dušica Ivanković, djuric@irb.hr

36 Marijana Erk, Marijana.Erk@irb.hr

37 Tatjana Mijošek, Tatjana.Mijosek@irb.hr

38 Zdenko Lončarić, zloncaric@pfos.hf

Download English Version:

<https://daneshyari.com/en/article/8946092>

Download Persian Version:

<https://daneshyari.com/article/8946092>

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