

Accepted Manuscript

Amphiphilic poly-*N*-vinylpyrrolidone nanoparticles: Cytotoxicity and acute toxicity study

A.N. Kuskov, P.P. Kulikov, M.I. Shtilman, V.N. Rakitskii, A.M. Tsatsakis



PII: S0278-6915(16)30283-6

DOI: [10.1016/j.fct.2016.08.017](https://doi.org/10.1016/j.fct.2016.08.017)

Reference: FCT 8689

To appear in: *Food and Chemical Toxicology*

Received Date: 7 July 2016

Revised Date: 28 July 2016

Accepted Date: 13 August 2016

Please cite this article as: Kuskov, A.N., Kulikov, P.P., Shtilman, M.I., Rakitskii, V.N., Tsatsakis, A.M., Amphiphilic poly-*N*-vinylpyrrolidone nanoparticles: Cytotoxicity and acute toxicity study, *Food and Chemical Toxicology* (2016), doi: 10.1016/j.fct.2016.08.017.

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.

**Amphiphilic poly-N-vinylpyrrolidone nanoparticles:
cytotoxicity and acute toxicity study**

A.N. Kuskov^{1,2,*}, P.P. Kulikov¹, M.I. Shtilman¹, V.N. Rakitskii³, A.M. Tsatsakis⁴

¹D.I. Mendeleev University of Chemical Technology of Russia, Moscow 125047, Russian Federation

²Moscow State University of Mechanical Engineering (MAMI), Moscow 107023, Russian Federation

³Federal Scientific Center of Hygiene, F.F. Erisman, Moscow 141014, Russian Federation

⁴University of Crete, Voutes, Heraklion 71409, Crete, Greece

*Corresponding author: a_n_kuskov@mail.ru

Highlights

Polymeric spherical nano-sized particles based on self-assembling of N-vinylpyrrolidone amphiphilic polymers were prepared and characterized.

No cytotoxicity was shown for the NVP-based polymeric nanoparticles against MCF-7 cells in MTT assay.

No acute toxicity was demonstrated for the NVP-based polymeric nanoparticles after single intraperitoneal administration in mice and rats.

Download English Version:

<https://daneshyari.com/en/article/5849228>

Download Persian Version:

<https://daneshyari.com/article/5849228>

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