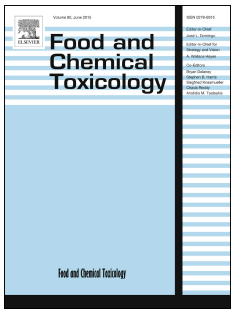
Accepted Manuscript



Amphiphilic poly-*N*-vynilpyrrolidone 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

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*-vynilpyrrolidone nanoparticles: Cytotoxicity and acute toxicity study, *Food and Chemical Toxicology* (2016), doi: 10.1016/j.fct.2016.08.017.

Amphiphilic poly-N-vynilpyrrolidone nanoparticles: cytotoxicity and acute toxicity study

A.N. Kuskov[1,2,*], P.P. Kulikov[1], M.I. Shtilman[1], V.N. Rakitskii[3], A.M. Tsatsakis[4]

[1]D.I. Mendeleyev University of Chemical Technology of Russia, Moscow 125047, Russian Federation
[2]Moscow State University of Mechanical Engineering (MAMI), Moscow 107023, Russian Federation
[3]Federal Scientific Center of Hygiene, F.F. Erisman, Moscow 141014, Russian Federation
[4]University 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.