Thematic Section: Biochemical Research.	Full Pa	ıper
Cuba action. Dharma calaginal Chamistry	Projection Code of Publication, 14 40 1	วิวว

Subsection: Pharmacological Chemistry.

Registration Code of Publication: 14-40-12-27

The article is multiple of an the materials of report presented at the "International Scientific Former Publication: Harris and Scientific Former Publication: 14-40-12-27

The article is published on the materials of report presented at the "International Scientific Forum Butlerov Heritage – 2015". http://foundation.butlerov.com/bh-2015/ (English Preprint)

Contributed: December 14, 2014.

Transdermal procaine delivery in the presence of dimethylsulfoxide

© Alexandra I. Danchuk, Ekaterina I. Selifonova, Rimma K. Chernova,* and Sergey Yu. Doronin⁺

Saratov State University n.a. N.G. Chernyshevsky. Astrakhanskaya St., 18/3. Saratov, 410012. Russia. Phone: +7 (8452) 21-07-58. E-mail: Doroninsu@mail.ru

*Supervising author; *Corresponding author

Keywords: transdermal drug delivery, procaine, dimethylsulfoxide.

Abstract

The article considers transdermal drug delivery of procaine and its mixtures with dimethylsulfoxide (DMSO). The parameters of drug transport via the human skin, such as J ($\mu g \cdot cm^{-2} \cdot h^{-1}$), D ($cm^{-2} \cdot h$), P (cm/h). have been calculated. It is shown that DMSO increases the activity of penetration – enhancement ratio (ER) 15 times.