

Esters of salicylic acid as a potential antipyretic

© Anatoliy K. Brel,^{1*} Svetlana V. Lisina,¹⁺ Alexander A. Spasov,² and Ludmila S. Mazanova²

¹Department of Chemistry; ²Department of Pharmacology. Volgograd State Medical University.

Pavshih Bortsov Sq., 1. Volgograd – 131. Russia. Phone: +7 (8442) 38-53-50. E-mail: svlisina@gmail.com

*Supervising author; +Corresponding author

Keywords: salicylic acid, acetylsalicylic acid (aspirin), esterification, alkylation, anti-pyretic activity, toxicity, LD50.

Abstract

Results of studying the reaction of alkyl salicylates preparation have been presented. Proper alkylation conditions such as solvent, catalyst, temperature have been selected. The composition of synthesized products has been proved with the help of ¹H NMR spectroscopy. The anti-pyretic activity and toxicity of synthesized compounds have been studied.