

Identification of metabolites of cannabimimetics AB-PINACA in urine by GC-MS

© Sergey S. Kataev,¹⁺ Nadezhda B. Zelenina,¹ and Oksana N. Dvorskaya^{2*}

¹ Forensic-Chemical Department. State Healthcare Establishment of Special Type "Perm Regional Bureau of Forensic-Medical Expertise". Startseva St., 61. Perm, 614077. Perm Region. Russia.

Phone: +7 (342) 210-67-83. E-mail: forenschemist@narod.ru

² Department of Toxicological Chemistry. Perm State Pharmaceutical Academy of the Ministry of Health of the Russian Federation. Poleyaya St., 2. Perm, 614990. Perm Region. Russia.

Phone: +7 (342) 282-58-64. E-mail: kaftox@mail.ru

*Supervising author; ⁺Corresponding author

Keywords: *cannabimimetics, metabolism, enzymic hydrolysis, solid-phase extraction, gas chromatography – mass spectrometry.*

Abstract

The data's for determine the fact of usage of cannabimimetic *N*-[1-(aminocarbonyl)-2-methylpropyl]-1-pentyl-1*H*-indazole-3-carboxamide (AB-PINACA) in course of screening of urine using the methods of solid phase extraction and gas chromatography – mass spectrometry methods are presented. Identification of metabolites AB-PINACA in urine of consumers of smoking mixtures was performed. The data of gas chromatography and mass spectrometry for some derivatives of metabolites AB-PINACA were obtained, the latter can be used in the practice of forensic chemical and chemical-toxicological analysis.