

Identification of metabolites of cannabimimetics AM(N)-2201 by the method of gas chromatography with mass spectrometric detection

© Leonid N. Shitov,¹⁺ Andrey V. Labutin,² Sergey S. Katayev,^{3*} Alexander L. Pechnikov,⁴ Maria V. Kolosova,⁵ Vitaliy N. Shabrov,¹ Yuriy A. Dzhurko,¹ and Mikhail B. Ershov¹

¹ Chemical-toxicological Laboratory. GBUZ YAO "Yaroslavl Oblast Clinical Hospital of Drug Treatment." Ocyabrskiy Pr., 59. Yaroslavl, 150054. Yaroslavl Region. Russia.

Phone: +7 (4852) 72-16-53. E-mail: lab076@rambler.ru

² Chemical-toxicological Laboratory. OGBUZ "Tomsk Regional Drug Dispensary." St. Lebedev, 4. Tomsk, 634061. Tomsk Region. Russia.

Phone: +7 (3822) 44-20-69. E-mail: lav877@rambler.ru

³ Forensic Chemistry Department. GKUZOT "Perm Regional Bureau of Forensic Medicine expertise." Startseva St., 61. Perm, 614077. Perm Region. Russia.

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

⁴ Forensic Chemistry Department. GKUZ "Bureau of forensic Yamal-Nenets Autonomous District." Glazkov St., 2. Salekhard, 629002. Russia. Phone: +7 (34922) 3-02-05. E-mail: pechnikov@gmail.com

⁵ Clinical diagnostic laboratory. KGBUZ "Krasnoyarsk Regional Drug Dispensary №1".

Kombaynostroiteley St., 5. Krasnoyarsk, 660048. Russia.

Phone: +7 (391) 221-14-40. E-mail: kolosova_79@mail.ru

*Supervising author; †Corresponding author

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Abstract

Metabolites are described to determine the use of cannabimimetics AM(N)-2201 during urine screening procedure for narcotic drugs and with application of methods of liquid-liquid extraction and gas chromatography with mass spectrometry. Search algorithm is characterized for new synthetic cannabimimetic metabolites using gas chromatography with tandem mass spectrometric detection. 17 metabolites are authenticated AM(N)-2201, detected in the urine of consumers of smoking mixtures. It has been established that the major metabolite of AM(N)-2201 is 3-[3-(naphthalen-1-ylcarbonyl)-1H-indazol-1-yl]propanoic acid. There were obtained gas chromatographic and mass spectrometric characteristics of trimethylsilyl derivatives of major metabolites, which can be used in the practice of forensic chemical and chemical-toxicological studies.