

Identification of 5F-AB-PINACA cannabimimetic metabolites in urine by GC-MC

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Keywords: 5F-AB-PINACA, cannabimimetics, metabolism, enzymic hydrolysis, solid-phase extraction, gas chromatography – mass spectrometry.

Abstract

The metabolites, allowing to establish the fact of using cannabimimetic of *N*-[1-carbamoyl-2-methylpropyl]-1-(5-fluoropentyl)-1*H*-indazole-3-carboxamide (5F-AB-PINACA) in the procedure of screening the urine on drugs and medicinal substances with the application of methods of solid-phase extraction and gas chromatography with mass spectrometry are described. Identification of the main metabolites of 5F-AB-PINACA in urine of consumers of smoking mixes was performed. It is established that the metabolism of 5F-AB-PINACA passes, generally through hydrolysis of amide bonds, the main metabolites are removed with urine in the conjugated form. Gas chromatographic and mass-spectrometric characteristics of derivative main metabolites which can be useful in practice of the forensic-chemical and chemical-toxicological analysis are received.