### Short Communication

Thematic Section: Physicochemical Research.

Subsection: Analytical Chemistry.

Reference Object Identifier – ROI: jbc-02/16-46-6-110

Article based on the report at the conference "Modern problems of chemical technology of biologically active substances." D.I. Mendeleev MUCTR. 26.05.2016.

Publication is available for discussion in the framework of the on-line Internet conference "Butlerov readings". http://butlerov.com/readings/ Submitted on June 20, 2016.

# A comparative study of cannabis and setting the common source of its origin

# © Anna S. Mayburova,<sup>+</sup> Alexandra A. Kolotukhina, Anastasia A. Kuznecova, and Alexev E. Kovalenko<sup>1</sup>\*

Major expertise in Doping and Drug Control. Russian University of Chemical Technology Name after D.I. Mendeleev. Miusskaya Sq., 9. Moscow, 125047. Russia. Phone: +7 (499) 978-86-60.

## \*Supervising author; <sup>+</sup>Corresponding author

Keywords: expertise, microspectrophotometry, infrared spectrometry, chromatography.

#### Abstract

This paper aims to carry out a comparative study of cannabis and find methods for studying foreign particles presented in the examination samples, which may also point to a common source of origin of plant raw materials used to manufacture them. Based on the synthesis of the results necessary and sufficient set of homogeneous signs of the component composition of the samples of cannabis was assessed, as well as the evaluation of the similarity of morphological characteristics, physical properties, molecular composition and spectral characteristics of the particles withdrawn from the various samples.