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## Impact of pharmaceutical impurities in ecstasy tablets: Gas chromatography-mass spectrometry

Amir Jalali, Amir Hatamie, Tahere Saferpour, Alireza Khajeamiri, Tahere Safa and Foad Buazare Ahvaz Jundishapur University of Medical Sciences, Iran

In this study, a simple and reliable method by gas chromatography-mass spectrometry (GC-MS) was developed for the fast and regular identification of 3, 4-MDMA impurities in ecstasy tablets. In doing so, eight samples of impurities were extracted by diethyl ether under alkaline condition and then analyzed by GC-MS. The results revealed high MDMA levels ranging from 37.6% to 57.7%. The GC-MS method showed that unambiguous identification can be achieved for MDMA from 3, 4-methylenedioxyamphetamine (MDA), amphetamine (AM), methamphetamine (MA) and ketamine (Keta) compounds, respectively. The experimental results indicated the acceptable time window without interfering peaks. It is found that GC-MS was provided a suitable and rapid identification approach for MDMA (Ecstacy) tablets, particularly in the forensic labs. Consequently, the intense MDMA levels would support the police to develop a simple quantification of impurity in Ecstasy tablets.

amjalali@hotmail.com

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