

Accepted Manuscript

Title: Development of simple and accurate detection systems for *Cannabis sativa* using DNA chromatography

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PII: S0379-0738(18)30492-4
DOI: <https://doi.org/10.1016/j.forsciint.2018.08.006>
Reference: FSI 9430

To appear in: *FSI*

Received date: 13-7-2018
Accepted date: 3-8-2018

Please cite this article as: Tadashi Yamamuro, Shigehiko Miyamoto, Masashi Kitamura, Tomonori Muro, Yuko T. Iwata, Hiroki Segawa, Kenji Kuwayama, Kenji Tsujikawa, Tatsuyuki Kanamori, Hiroyuki Inoue, Development of simple and accurate detection systems for *Cannabis sativa* using DNA chromatography, *Forensic Science International* <https://doi.org/10.1016/j.forsciint.2018.08.006>

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Development of simple and accurate detection systems for *Cannabis sativa* using DNA chromatography

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Abstract

In recent years, the need for analyzing cannabis DNA has increased in order to accommodate the various types of cannabis samples encountered in forensic investigation. This study was aimed to establish a simple and accurate cannabis DNA detection system using DNA chromatography. Two chromatography chip systems with different features were successfully developed. One system (the “four-line version”) involves tetraplex PCR amplification, which could be used to detect cannabis DNA and distinguish between drug-type and fiber-type cannabis using the tetrahydrocannabinolic acid synthase gene

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