

**FEASIBILITY OF TABLET IDENTIFICATION BY DIRECT INJECTION  
ELECTROSPRAY IONIZATION HIGH RESOLUTION TIME OF FLIGHT MASS  
SPECTROSCOPY**

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**ABSTRACT**

The objective of this work was to study the feasibility of identifying unknown tablet samples by directly introducing the sample as solution into the electrospray ionization port of a high resolution time-of-flight mass spectrometer (HRTOF-MS) without prior separation by liquid chromatography. Thirty-four known drugs were analyzed by this method, among which 65% were identified, 26% were identified with some condition and 9% could not be identified from their mass spectrum. A procedure for identification of an unknown tablet was proposed from this study as a sample screening method for unknown tablet identification.

**KEY WORDS: TABLET IDENTIFICATION / DIRECT INJECTION / HIGH  
RESOLUTION TIME OF FLIGHT / MASS SPECTROSCOPY**

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