

Solid Phase Micro Tip Extraction Coupled With High Performance Liquid Chromatography for Diclofenac Sodium Analysis in Urine Sample

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First Author	
Last Author	
Authors	Hermawan, D; Ling, LH; Ibrahim, WAW; Sanagi, MM;
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Abstract	A solid phase micro tip extraction (SPMTE) has been developed as sample preparation technique for the analysis of diclofenac sodium, a non-steroidal anti-inflammatory drug (NSAID) in human urine sample. The analysis was performed by high performance liquid chromatography (HPLC) system using methanol: water (60: 40, v/v) as mobile phase, flow rate of 1.0 mL/min under UV detection wavelength at 282 nm. Extraction conditions such as desorption solvent and extraction time were optimized in this study. The optimized SPMTE coupled with the HPLC method was successfully applied for the determination of diclofenac sodium in urine samples. The best recovery of diclofenac sodium in urine samples is 74.80% with RSD of 3.56% (n= 3). The proposed method provides simple and rapid analysis of diclofenac sodium in urine sample.
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Author	DADAN HERMAWAN