



**SYNTHESIS OF MOLECULAR IMPRINTED POLYMER OF CITALOPRAM AND ITS APPLICATION IN
SOLID-PHASE EXTRACTION OF IT**

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Molecularly Imprinted Solid-phase Extraction (MISPE) is a technique for the selective extraction. In the present work, Molecular imprinted polymers (MIP) were prepared for solid-phase extraction of Citalopram hydrobromide and followed by its UV spectroscopic determination at 239 nm. Molecular imprinted solid-phase extraction (MISPE) condition were established under which citalopram hydrobromide is in aqueous samples and complex materials such as Citalopram tablets could be selectively extracted and quantified.

The result revealed the obtained MIP have affinity for Citalopram and excellent discrimination between imprinted polymer and non-imprinted polymer (NIP) observed after extraction, imprinting was conformed by comparison of the recoveries between NIP (1.6 %) and MIP (70.5%) polymers.