



SELECTIVITY STUDIES OF CAFFEINE MOLECULARLY IMPRINTED POLY (VINYL ALCOHOL) HYDROGELS

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Abstract

Molecular imprinting is a rapid developing method of obtaining synthetic receptors to a wide range of target molecules. In this work, a novel poly (vinyl alcohol) imprinted material has been obtained with caffeine used as template molecule. To demonstrate the obtaining of the molecular imprinted poly (vinyl alcohol), studies of caffeine sorption and desorption have been done. In order to determine the selectivity of the imprinted film, the sorption of other caffeine structurally related compounds such as theophylline, xanthine and theobromine has been performed.

Key words: hydrogel, molecular imprinting, poly (vinyl alcohol), selectivity studies

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