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## **MOLECULARLY IMPRINTED POLY (VINYL ALCOHOL) FILMS FOR THE SELECTIVE ABSORPTION OF GLYCYRRHIZINIC ACID FROM AQUEOUS SOLUTIONS**

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### **Abstract**

Molecular imprinting is a versatile and ecological method for obtaining polymeric materials with a lot of applications in the field of pharmacy, medicine and biosensor assays. In this work, a new method of alternative molecular imprinting to design imprinted poly (vinyl alcohol) films has been proposed. Glycyrrhizinic acid has been used as template molecule. To demonstrate the obtaining of the molecular imprinted poly (vinyl alcohol) and its selectivity, studies of glycyrrhizinic and glycyrrhetic acid sorption and desorption have been done. Also a study of the life cycle of the imprinted material has been performed, and as secondary valorification, the absorptive capacity of the material for  $\text{Cu}^{2+}$  ions has been tested.

*Key words:* glycyrrhizinic acid, molecular imprinting, poly (vinyl alcohol), sorption kinetic

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