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邻香兰素分子模板聚合物结合作用及选择性研究

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Investigation on the binding functions and selectivities of imprinting polymers with o-vanillin

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摘要 以邻香兰素为烙印分子,α-甲基丙烯酸为功能单体,乙二醇二甲基丙烯酸酯为交联剂,采用分子烙印技术合成了1类新的分子烙印聚合物.研究了它们的吸附特性及选择性识别能力.结果表明,与组成相同的非模板聚合物相比,模板聚合物有一定的吸附性能和选择性.

关键词: 分子印迹 分子识别 邻香兰素 分子模板聚合物

Abstract: Some new molecular template polymers were prepared by molecular imprinting technology,using o-vanillin as the template molecule,methacrylic acid as the functional monomer and thylene glycol dimethacrylate as the cross-linking agent.The adsorptive property and selective recognition abilities of the polymers for o-vanillin and its isomer were studied.The results showed that o-vanillin template polymers had higher adsorptive character,higher selectivities and recognition abilities,compared with similar non-template polymer.

Key words: molecular imprinting molecular recognition o-vanillin molecular template polymer

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