

论文

柯里拉京分子印迹聚合物的制备及其分子识别能力

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摘要:

关键词: 柯里拉京 分子印迹聚合物 分子识别 衍生物

Synthesis and molecule recognition capability of corilagin-molecularly imprinted polymer

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Abstract:

To study the molecule recognition capability of corilagin-molecularly imprinted polymer (MIP) by the high performance liquid chromatography (HPLC), the molecularly imprinted polymer was synthesized by using corilagin as the template. Chromatographic performance of corilagin was investigated in different mobile phases. The MIP was investigated for the recognition of corilagin and its derivatives and other compounds in the same mobile phase. The MIP exhibited very high affinity for corilagin in the mobile phase of acetonitrile. The K' value will be reduced when the content of polar solvent increased in the mobile phase. The MIP has good selectivity in the mobile phase of acetonitrile-methanol (95:5), but it has no affinity for corilagin's derivatives. The corilagin-MIP has good selectivity for corilagin and it can be used in extracting corilagin and its analogs from herbs.

Keywords: molecularly imprinted polymer molecule recognition derivative corilagin

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