

生命科学

顶空气相色谱法测定人参根皂苷中的大孔吸附树脂残留物

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摘要:

采用顶空气相色谱法测定人参根皂苷中大孔树脂残留物的质量浓度. 色谱柱初始温度60 ℃, 保持22 min, 以50 ℃/min升至200 ℃, 保持6 min, 氢火焰离子检测器温度为260 ℃, 进样口温度220 ℃; 用质量分数为40%的N,N

二甲基酰胺作溶剂, 载气为氮气. 实验结果表明, 正己烷、苯、甲苯、对二甲苯、苯乙烯、对二乙基苯6种大孔树脂残留物在各自的质量浓度范围内呈良好的线性关系, 且回收率符合要求.

关键词: 人参根皂苷; 大孔吸附树脂; 残留物; 顶空气相色谱法

Determination of Macroporous Resin Residua in Saponins of the Roots of Panax ginseng C A Meyer by Headspace GC

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Abstract:

To establish headspace GC method for the determination of residua of macroporous resin in the saponins extracted from the roots of Panax ginseng C A Meyer, the chromatographic separation was performed. The column temperature was programed, with an initial temperature of 60 ℃ (hold 22 min), at an increasing rate of 50 ℃/min to 200 ℃ (hold 6 min); the injector temperature was set at 220 ℃ and FID detector temperature was set at 260 ℃; solvent was 40% N,N Dimethyl acetamide (DMF); the carrier gas was nitrogen. All the residua including nhexane, benzene, toluene, 1,4 xylene, styrene and 1,4 diethyl benzene gave good linearities and the recoveries.

Keywords: saponins of the roots of Panax ginseng C A Meyer macroporous resin; residua; headspace GC

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