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归丹沙棘胶囊的快速薄层鉴别与二苯乙烯苷和丹酚酸B同时测定

Rapid TLC Identification and Simultaneous Determination of Stilbene Glucoside and Salrianolic Acid B for Guidan Shaji Capsules

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英文关键词:Guidan Shaji capsules HPLC stilbene glucoside salvianolic acid B contents determination

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中文摘要：

目的 为多指标快速控制保健食品质量，对归丹沙棘胶囊质量控制方法进行研究。方法 在2块薄层板上鉴别何首乌、丹参、沙棘、当归和苦杏仁。采用反相高效液相色谱，以甲醇-乙腈-甲酸-水(24∶9∶1∶66)为流动相，300 nm为检测波长，同时测定样品中二苯乙烯苷与丹酚酸B的含量。结果 通过方法学考察，二苯乙烯苷的进样量在0.042 3~0.846 μg (r=0.999 5)、丹酚酸B的进样量在0.118~2.36 μg(r=0.999 6)与峰面积呈良好的线性关系。二苯乙烯苷的平均回收率为99.04%，丹酚酸B的平均回收率为98.47%；其RSD(n=9)分别为0.66%和 0.83%。TLC鉴别阴性无干扰。结论 本方法简便、快捷、实用，能够整体控制归丹沙棘胶囊的质量。

英文摘要：

OBJECTIVE To rapidly control the quality of dietary supplement by multiple indicators, the method of quality control for Guidan Shaji capsules were studied. METHODS Polygoni Multiflori Radix, Salviae Miltiorrhizae Radix et Rhizoma, Hippophae Fructus, Angelicae Sinensis Radix and Armeniacae Semen Amarum were identified by TLC at 2 thin-layer chromatographic plates. The contents of stilbene glucoside and salvianolic acid B in the samples were determined using a mixture of methanol-acetonitrile-formic acid-H2O(24∶9∶1∶66) as the mobile phase by HPLC. RESULTS The methodological study showed that a good linear correlation existed in the range 0.042 3-0.846 μg of stilbene glucoside (r=0.999 5) and 0.118-2.36 μg for salvianolic acid B(r=0.999 6), respectively. Their average recoveries were 99.04% and 98.47%, respectively, and the RSD(n=9) were 0.66% and 0.83%, respectively. The negative sample did not interfere TLC identification. CONCLUSION This method of quality control is simple, rapid and usable which can be used for quality control of Guidan Shaji capsules.

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