

论文

益气补肾中药脑神康胶囊的质量控制标准研究

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摘要:

目的 建立脑神康胶囊多糖及主要活性成分黄芪甲苷、葛根素、淫羊藿苷、小檗碱以及熟地黄的限量成分5-羟甲基糠醛(5-HMF)的含量测定方法。方法 采用硫酸-苯酚法测定脑神康中多糖的含量;采用高效液相蒸发光散射检测法(HPLC-ELSD)测定黄芪甲苷的含量;采用高效液相色谱法(HPLC)测定葛根素、淫羊藿苷、小檗碱和5-羟甲基糠醛的含量。结果 脑神康胶囊中多糖、黄芪甲苷、葛根素、淫羊藿苷、小檗碱含量分别为5.01%、0.00796%、0.434%、0.0618%、0.108%;限量成分5-羟甲基糠醛含量为0.0219%。结论 初步建立了益气补肾中药脑神康胶囊的质量控制方法,为脑神康胶囊的进一步开发研究奠定了基础。

关键词: 脑神康; 多糖; 黄芪甲苷; 活性成分; 5 羟甲基糠醛; 色谱法, 高效液相

Quality control of invigorating Qi and tonifying kidney “NaoShenKang” Capsule

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Abstract:

Objective To establish methods to determine polysaccharides, Astragaloside IV, kakkonein, icariin, berberinum and 5-HMF in the “Naoshenkang” Capsule. Methods The content of polysaccharides in the “Naoshenkang” Capsule was determined by sulfuric acid-phenol method. The content of Astragaloside IV was determined by HPLC-ELSD, and other compounds, including kakkonein, icariin, berberinum and 5-HMF, in the capsule were determined by HPLC-UV/Vis. Results The contents of polysaccharides, Astragaloside IV, kakkonein, icariin, berberinum and 5-HMF in the “Naoshenkang” Capsule were 5.01%, 0.00796%, 0.434%, 0.0618%, 0.108% and 0.0219%, respectively. Conclusion The preliminary quality control method is established for the “Naoshenkang” Capsule. The result from the assays provided useful data for the further research of the “Naoshenkang” Capsule.

Keywords: “Nao Shen Kang”; Polysaccharides; Astragaloside IV; Active constituents; 5 HMF; HPLC

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