



中文标题 检索 药刊检索

生物效价测定法用于活血化瘀中药三棱品质评价的研究

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中文摘要:目的: 建立三棱抗凝效价的检测方法, 以对不同产地三棱药材的活血化瘀效应进行评价, 并通过三棱抗凝效价与阿魏酸、总黄酮含量之间的相关性分析, 探讨三棱抗凝活性的物质基础。方法: 采用活化部分凝血活酶时间(APTT)测定不同产地三棱药材的抗凝血时间, 运用“量反应-平行线法”(3,3)法计算三棱抗凝效价, 运用Pearson相关分析法计算三棱抗凝效价与化学成分之间的相关性。结果: 三棱对照药材量效之间具有良好的线性关系($Y=172.76X-193.39, R^2=0.9955$), 该方法的精密性(RSD 4.7%), 重复性(RSD 2.3%), 中间精密性(RSD 5.4%)良好, 测得不同产地三棱药材抗凝效价为52.33-238.88 U·g⁻¹, 并全部通过可靠性检验, 相关性分析结果表明三棱抗凝效价与2种化学成分含量之间无显著性相关。结论: 本实验所建立的生物效价检测方法可以作为三棱品质评价的方法之一。

中文关键词: 三棱 活血化瘀 活化部分凝血活酶时间 生物效价 品质评价

Study on quality evaluation of Sparganii Rhizoma by biopotency determination method

Abstract: Objective: To establish a method for determining anticoagulation potency of Sparganii Rhizoma, and evaluate the effect of Sparganii Rhizoma herbs from different producing areas on promoting blood circulation and removing blood stasis; and study the material basis of Sparganii Rhizoma through the correlation analysis on its anticoagulation potency, ferulic acid and total flavonoid content. Method: The anticoagulation time of Sparganii Rhizoma from different producing areas with activated partial thromboplastin time for their active extracts. Their biopotency was calculated by using the method of "parallel lines of dose effect" (3, 3). The degree of correlation between their anticoagulation potency and chemical constituents were calculated by using Pearson correlational analysis method. Result: Sparganii Rhizoma and its control drugs had a good linear relationship between dose and effect ($Y=172.76X-193.39, R^2=0.9955$). The method had better accuracy (RSD 4.7%), repeatability (RSD 2.3%) and intermediate precision (RSD 5.4%), finding that the biopotency of Sparganii Rhizoma from different producing areas ranged between 52.33-238.88 U·g⁻¹, and all of them passed the test on reliability. The results of correlation analysis showed no remarkable relationship between the anticoagulation potency of Sparganii Rhizoma and the contents of the two chemical constituents. Conclusion: This biopotency determination method established in the experiment can be used as one of approaches for quality evaluation on Sparganii Rhizoma.

keywords: Sparganii Rhizoma activating blood and dissolving stasis effect activated partial thromboplastin time biopotency quality evaluation

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