

论文

指纹定量法测定中药复方指纹归属度和药效物质工艺收率

孙国祥;史香芬;张静娴;毕开顺

沈阳药科大学 药学院, 辽宁 沈阳 110016

摘要:

通过建立中药复方化学指纹有机加和模型来研究中药复方化学指纹成分归属度和药效物质工艺收率。该法首先进行指纹归属的定性分析, 然后进行指纹归属定量分析。提出3种可供选择使用的判定单味药在复方中的化学成分数量和分布比例的方法。就紫外吸收成分来说, 该法评价出S5黄芩对清热解毒注射液(QRJDI)的贡献最大, 其次是S7龙胆、S4金银花、S8知母和S9栀子; 评价出8批市售QRJDI药效物质工艺收率均很低。指纹定量法能够客观、准确地定量描述单味药对复方制剂化学指纹的贡献大小和定量评价中药复方药效物质的工艺收率。

关键词: 中药复方化学指纹有机加和模型 指纹定量法 归属度 拟合定性相似度 药效物质 工艺收率

Determination of the fingerprint attribution ratio and process recovery of medicinal effectiveness components for TCM-compound prescription with quantified fingerprint method

SUN Guo-xiang; SHI Xiang-fen; ZHANG Jing-xian; BI Kai-shun

Abstract:

By setting up the organic additive model of chemical fingerprints of TCM-compound, the quantified fingerprint method had been established to solve the qualitative and quantitative analyses problems for both the fingerprint attribution ratio and process recovery of medicinal effective components in TCM-compound prescription. The method firstly performs the qualitative analyses of the attribution ratios, and then the quantitative analyses, which can successfully disclose the results of attribution ratio and determine the process recovery of the medicinal effective components for TCM-compound prescription. Three optional methods were represented to assess the amount and distribution proportion of chemical compositions for single crude drug to compound prescription. In terms of components absorbed ultraviolet light, S5 (Radix Scutellariae) was assessed to be the most important crude drug containing much more effective components, and S7 (Radix Gentianae), S4 (Flos Lonicerae Japonica), S8 (Rhizome Anemarrhena) and S9 (Fructus Gardeniae) were second important crude drugs. The results showed lower process recovery of the medicinal effective components for eight batches of marketed preparations. Above all, the quantified fingerprint method can objectively and accurately reflect how high is the contribution of a single crude drug to the compound prescription, and quantitatively evaluate the process recovery of medicinal effectiveness components.

Keywords: quantified fingerprint method attribution ratio fitting similarity medicinal effective components process recovery organic additive model of chemical fingerprints for TCM-compound

收稿日期 2008-05-20 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 孙国祥

作者简介:

参考文献:

本刊中的类似文章

文章评论 (请注意: 本站实行文责自负, 请不要发表与学术无关的内容! 评论内容不代表本站观点.)

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(966KB)
- ▶ [HTML全文]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 中药复方化学指纹有机加和模型
- ▶ 指纹定量法
- ▶ 归属度
- ▶ 拟合定性相似度
- ▶ 药效物质
- ▶ 工艺收率

本文作者相关文章

- ▶ 孙国祥
- ▶ 史香芬
- ▶ 张静娴
- ▶ 毕开顺

PubMed

- ▶ Article by
- ▶ Article by
- ▶ Article by
- ▶ Article by

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text" value="5667"/>