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知母的UPLC指纹图谱及聚类分析

UPLC Fingerprint of Anemarrhenae Rhizoma and Its Hierarchical Cluster Analysis

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中文关键词： 知母 指纹图谱 超高效液相色谱法 聚类分析

英文关键词:Anemarrhenae Rhizoma fingerprint UPLC hierarchical cluster analysis

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中文摘要:

目的 建立知母的超高效液相指纹图谱。方法 采用ACQUITY UPLC HSS T3(2.1 mm×100 mm，1.8 μm)色谱柱；流动相为乙腈-3%磷酸，梯度洗脱，流速为0.5 mL·min^{-1}，柱温为30 ℃，检测波长为210 nm。结果 建立了知母的UPLC指纹图谱共有模式，标定了共有峰，并指认了6个主要色谱峰，各色谱峰有较好的分离。根据聚类分析结果，可将所收集的知母样品分为两类。结论 本方法快高效，可用于知母的质量评价。

英文摘要:

OBJECTIVE To establish fingerprint of Anemarrhenae Rhizoma UPLC. METHODS The UPLC fingerprint of Anemarrhenae Rhizoma were determined on an HSS T3 column (2.1 mm×100 mm,1.8 μm) eluted with the mobile phase consisted of acetonitrile and 0.03% phosphoric acid in gradient mode; flow rate: 0.5 mL·min^{-1}; column temperature: 30 ℃ and th detection wavelength was set at 210 nm. RESULTS The common mode of the UPLC fingerprint was set up under the established condition. There were 12 common peaks in the fingerprint of 16 samples, six of which were identified. T Anemarrhenae Rhizoma from 16 different areas could be divided into 2 grades through the results of hierarchical clu analysis. CONCLUSION The method was fast and accurate. The chromatographic profile of Anemarrhenae Rhizoma with hig specificity can be used to control the quality of Anemarrhenae Rhizoma.

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