



## 环境因子与远志脂溶性和水溶性成分的相关性分析

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**中文摘要:**目的: 分析环境因子与远志脂溶性成分及水溶性成分之间的相关性。方法: 采集18个产地的远志药材, 分别用石油醚提取其脂溶性成分并经GC-MS分析; 50%甲醇提取其水溶性成分并经LC-MS分析; 通过实地调查结合查阅文献, 获取远志生长地的环境因子数据; 在此基础上, 应用SPSS 18.0软件分析生态因子与远志脂溶性成分、水溶性成分之间的关系。结果: 远志脂溶性成分含量与7月均温、1月均温呈线性关系; 远志水溶性成分含量与年均气温、纬度、年均降水量呈线性关系。结论: 对远志脂溶性成分积累影响最大的是7月均温, 其次是1月均温; 每个组分其影响因素也不尽相同。影响远志水溶性成分含量的主要地理气候因子是年均气温、纬度及年均降水量。该研究为远志栽培及质量评价提供参考。

中文关键词: 远志 环境因子 脂溶性成分 水溶性成分 相关性

## Correlation between environmental factors and liposoluble and lipophilic constituents of Polygalae Radix

**Abstract:** Objective: To analyze the correlation between environmental factors and the lipophilic and hydrophilic constituents of Polygalae Radix. Method: The contents of lipophilic constituent were determined by GC-MS and hydrophilic constituents by HPLC. Geographical factors were collected by on-site inspection and climate factors by the local meteorological data. The relationship between the content of the lipophilic and hydrophilic constituents and the factors were analyzed by SPSS 18.0. Result: There was linear relationship between the content of lipophilic constituent and climate factors such as average temperature of July, average temperature of January. There was also linear relationship between hydrophilic constituents and climate factors such as annual average temperature, latitude, annual average rainfall. Conclusion: The main climate factors that affect liposoluble constituent content were average temperature of July, average temperature of January, and the main climate factors that affect hydrophilic constituent content were annual average temperature, latitude, annual average rainfall. The study would contribute to the quality evaluation and suitability of origin of Polygalae Radix.

**keywords:** Polygalae Radix liposoluble constituent hydrophilic constituents environmental factors correlation

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