

实验研究

高效液相色谱法测定二色补血草中杨梅苷、
圣草酚、木犀草素、槲皮素的含量^{*}许欢 王菲 张丽 杨新杰 宋小妹^{**} 岳正刚

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摘要:目的 建立二色补血草中杨梅苷、圣草酚、木犀草素、槲皮素4种化学成分含量测定的HPLC方法。
方法 采用Accurasil C₁₈ (4.6 mm × 250 mm, 5 μm) 色谱柱; 0.2% 磷酸溶液和乙腈进行梯度洗脱; 柱温 25 ℃; 流速 1 mL · min⁻¹; 检测波长 254 nm。
结果 在HPLC法中, 杨梅苷、圣草酚、木犀草素、槲皮素的线性范围分别是: 0.2232 ~ 0.6696 μg (r = 0.9995)、0.2196 ~ 0.6588 μg (r = 0.9997)、0.0684 ~ 0.2052 μg (r = 0.9996)、0.0624 ~ 0.1872 μg (r = 0.9998); 平均回收率分别为 98.5%、97.8%、99.5%、99.7%, RSD 值分别为 1.3%、1.6%、0.8%、1.6%。
结论 所建立的方法专属性强, 重复性好, 可用于二色补血草的质量控制。

关键词: 二色补血草; 杨梅苷; 圣草酚; 木犀草素; 槲皮素; 高效液相色谱法

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HPLC Determination on Contents of Myricetrin, Eriodictyol,
Luteolin and Quercetin in Limonium Bicolor

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Abstract Objective: To establish HPLC method to determine the chemical contents of myricetrin, eriodictyol, luteolin and quercetin in limonium bicolor. **Method:** The samples were separated by Accurasil C18 column (4.6 mm × 250 mm, 5 μm) and a gradient elution using 0.2% phosphoric acid and acetonitrile, with flow rate being 1 mL/min, detecting wave length 261 nm and the column temperature 25℃. **Results:** The results of HPLC showed that linearity ranges of myricetrin, eriodictyol, luteolin and quercetin were 0.2232 ~ 0.6696 μg (r = 0.9995), 0.2196 ~ 0.6588 μg (r = 0.9997), 0.0684 ~ 0.2052 μg (r = 0.9996) and 0.0624 ~ 0.1872 μg (r = 0.9998) respectively; their average recovery rates 98.5%, 97.8%, 99.5% and 99.7% as well as RSD values 1.3%, 1.6%, 0.8% and 1.6%. **Discussion:** The established HPLC method with strong specificity and great repeatability can be used to control the quality of limonium bicolor.

Keywords limonium bicolor, myricetrin, eriodictyol, luteolin, quercetin, HPLC

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