



## 大鼠灌胃白花蛇舌草有效部位提取物血浆中代谢产物的液质分析

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中文摘要:目的:分析大鼠灌胃白花蛇舌草有效部位提取物后血浆中对香豆酸、反式6-O-对香豆酰鸡尿藤苷甲酯及其代谢产物。方法:取健康雄性SD大鼠按 $0.4 \text{ g} \cdot \text{kg}^{-1}$ 的剂量经口给予白花蛇舌草有效部位提取物,1.0 h后采集眼眶静脉血液制备血浆,采用HPLC-Q-TOF-MS进行分析。结果:在大鼠血浆中只检测到1个代谢产物,并利用对照品鉴定了其结构为对香豆酸。结论:白花蛇舌草有效部位提取物中主要成分反式6-O-对香豆酰鸡尿藤苷甲酯在大鼠体内的代谢产物为对香豆酸,本实验为研究白花蛇舌草化学成分及药效作用提供了理论依据。

中文关键词:白花蛇舌草有效部位提取物 代谢产物 对香豆酸 HPLC-Q-TOF/MS

## HPLC-TOF-MS analysis of metabolites of Diffusa effective extracts in rats

**Abstract:** Objective: To analyze *p*-coumaril acid, trans-6-*O*-*p*-coumaroyl scandoside methyl ester and its metabolites in rat plasma after intragastric administration of exocarpium Diffusa effective extracts. Method: Rat blood samples were collected 1.0 h after oral administration of  $0.4 \text{ g} \cdot \text{kg}^{-1}$  exocarpium Diffusa effective extracts, and then were analyzed by using HPLC-Q-TOF-MS. Result: In rat plasma, only one metabolite was detected. The structure was identified by reference substance to be *p*-coumaril acid. Conclusion: The methyl glucoside metabolite in rat from the main component parts of trans-6-*O*-*p*-coumaroyl scandoside methyl ester droppings of vines in Diffusa effective extracts is *p*-coumaril acid. This experiment provides a theoretical basis for studying chemical compositions and pharmacodynamic action of Diffusa.

**keywords:** Diffusa effective extracts metabolites *p*-coumaril acid HPLC-Q-TOF/MS

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