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摘要：建立大鼠全血中灵芝酸单体Me的高效液相色谱测定方法。采用色谱柱Diamonsil[®] C18柱（250mm×4.6μm，5μm），流动相为甲醇-水（体积比为94：6，用醋酸调pH至3.6）；流速为1mL/min；检测波长为245nm；内标为苯丙酸诺龙。灵芝酸单体Me血中浓度在0.05-40μg/mL范围内线性良好（ $r>0.99$ ），定量限为50ng/mL，日内和日间测定的精密度（以相对标准偏差表示）均低于8.6%。该方法简便、灵敏、准确，适用于大鼠体内灵芝酸的药代动力学研究。

关键词：高效液相色谱法, 灵芝酸单体Me, 大鼠全血

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Determination of ganoderic acids Me in rat whole blood by high performance liquid chromatography method

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Abstract: An high performance liquid chromatography (HPLC) method was established for the determination of ganoderic acid Me (GA-Me) in rat whole blood. The concentration of GA-Me in blood was determined by HPLC with a Diamonsil[®] C18 (250 mm×4.6 μm, 5 μm) column and a mobile phase of methanol-water (adjusted to pH 3.6 with acetic acid, 94:6, V/V) at a flow rate of 1mL/min. UV detector was set at 245nm. Nandrolone phenylpropionate was used as the internal standard. The calibration curve of GA-Me in blood was linear over the range of 0.05 - 40 μg/mL with a correlation coefficient of 0.9978. The lower limit of quantification was 50 ng/mL. The relative standard deviations of intra-day and inter-day determination were both less than 8.6%. This assay method is simple, precise and sensitive enough for the determination of GA-Me in blood, it can be applied to a pharmacokinetic study of GA-Me in rats.

Key words: High performance liquid chromatography (HPLC), Ganoderic acid Me (GA-Me), Rat whole blood

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