



HPLC测定大鼠血浆和房水中的芒果苷

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
范胜军	FAN Shengjun	哈尔滨医科大学 药学院 药理教研室, 黑龙江 哈尔滨 150086	Department of Pharmacology, Harbin Medical University, Harbin 150086, China	
顾袁琴	GU Yuanqin	哈尔滨医科大学 药学院 药理教研室, 黑龙江 哈尔滨 150086	Department of Pharmacology, Harbin Medical University, Harbin 150086, China	
李国玉	LI Guoyu	哈尔滨医科大学 药学院 药理教研室, 黑龙江 哈尔滨 150086	Department of Pharmacology, Harbin Medical University, Harbin 150086, China	
张明宇	ZHANG Mingyu	哈尔滨医科大学 药学院 药理教研室, 黑龙江 哈尔滨 150086	Department of Pharmacology, Harbin Medical University, Harbin 150086, China	
李宝馨	LI Baoxin	哈尔滨医科大学 药学院 药理教研室, 黑龙江 哈尔滨 150086	Department of Pharmacology, Harbin Medical University, Harbin 150086, China	
张红	ZHANG Hong	哈尔滨医科大学 附属第一医院, 黑龙江 哈尔滨 150001	First Affiliated Hospital of Harbin Medical University, Harbin 150001, China	dr.hzhang2007@hotmail.com
侯云龙	HOU Yunlong	哈尔滨医科大学 药学院 药理教研室, 黑龙江 哈尔滨 150086	Department of Pharmacology, Harbin Medical University, Harbin 150086, China	houyunlonghrb@yahoo.com.cn

中文摘要:目的:建立了测定大鼠血浆和房水中芒果苷含量的液相色谱检测方法。方法:以对硝基苯酚作内标,甲醇-2%冰醋酸(40:60)为流动相,流速为1.0 mL·min⁻¹。在Cosmosil ODS C₁₈色谱柱(4.6 mm×250 mm, 5 μm)上进行分离。结果:方法的线性范围分别为血浆0.50-250.00 mg·L⁻¹、房水0.10-10.00 mg·L⁻¹,线性回归系数均在0.995 4以上,日内和日间精密RSD均小于12%,最低检测限0.05 mg·L⁻¹。结论:本方法具有简便、准确等优点,可满足芒果苷在大鼠血浆和房水中药理学研究的需求。

中文关键词:芒果苷 药理学 高效液相色谱法 血浆 房水

Determination of mangiferin in rat plasma and aqueous humor by HPLC

Abstract:A HPLC method was developed for the determination of mangiferin in rat plasma and aqueous humor. 4-Nitrophenol was used as internal standard. Analysis was performed on a Cosmosil ODS C₁₈ analytical column (4.6 mm×250 mm, 5 μm) with mobile phase consisting of methanol-water (40 : 60) with 2% glacial acetic acid at a flow rate of 1.0 mL·min⁻¹. The calibration curve of mangiferin in rat plasma and aqueous humor showed excellent linear behaviors over the investigated concentration of 0.50-250.00 mg·L⁻¹ in plasma and 0.10-10.00 mg·L⁻¹ in aqueous humor, respectively, and the correlation coefficients were all above 0.995 4. The intra-day and inter-day precisions for all samples were measured to be below 12%. The limit of quantitation was 0.10 mg·L⁻¹ and low enough for the determination of mangiferin in all samples. The validated method has been successfully applied to preliminary pharmacokinetics study of mangiferin in rat plasma and aqueous humor.

keywords:mangiferin pharmacokinetics HPLC plasma aqueous humor

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