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论文

CYP2D6酶活性的毛细管气相色谱法测定及在代谢分型中的应用

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摘要:

关键词: 右美沙芬; CYP2D6酶活性; 毛细管气相色谱法

DETERMINATION OF CYP2D6 ACTIVITY BY CAPILLARY GAS CHROMATOGRAPHY AND ITS APPLICATION IN METABOLIC PHENOTYPING

Wu Yongjiang Ma Mingming; Zhou Xiang; Zeng Suand Yu Zhiping

Abstract:

AIM: To develop a capillary GC method for the indirect determination of CYP2D6 activity. METHODS: After an oral dose of 30 mg dextromethorphan, urine samples were collected and extracted, then analysed on a 0.22 mm×25 m HP-1 column coupled with FID detector. The temperatures of the column, injector and detector were 190° C, 260° C and 260° C, respectively. RESULTS: Dextromethorphan (DM) and its metabolite dextrorphan (DT) were well separated. There was good linear relationship between chromatographic area and concentration in the concentration range of $0.20\sim1.60~\mu g.mL^{-1}$ for DM and $0.40\sim20.00~\mu g.mL^{-1}$ for DT. The recoveries of DM and DT were 99.5% and 99.8%, respectively. Within day's relative standard deviations were no more than 5.47% for DM and 6.19% for DT. The lowest detection limits were 8 ng for DM and 4 ng for DT. The CYP2D6 activities in 11 volunteers were determined with this method. CONCLUSION: The established GC method was simpler than previous GC method, it can be used for the determination of CYP2D6 activity.

Keywords: CYP2D6 activity capillary gas chromatography dextromethorphan

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