



### 阳春砂仁药材质量标准研究

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### Studies on quality control standard of *Amomum villosum*

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**摘要** 建立阳春砂仁含量测定方法.采用气相色谱(GC)法测定阳春砂仁中乙酸龙脑酯的含量,采用高效液相色谱(HPLC)法测定阳春砂仁中槲皮苷的含量.乙酸龙脑酯进样量在0.1271~2.5424 $\mu$ g( $r=0.99908$ )范围内与峰面积呈良好的线性关系,平均回收率为97.95%,相对标准偏差为2.08%( $n=6$ );槲皮苷进样量在0.006~0.013 $\mu$ g( $r=0.99956$ )范围内与峰面积呈良好的线性关系,平均回收率为103.73%,相对标准偏差为0.80%( $n=6$ ).本方法简便,快速准确,可作为阳春砂仁含量测定质量控制方法.

**关键词:** 阳春砂仁 气相色谱法 高效液相色谱法 乙酸龙脑酯 槲皮苷 含量测定

**Abstract:** To establish methods for the determination of the quality of *Amomum villosum*.GC was adopted for the determination of bornyl acetate in *Amomum villosum*,HPLC was adopted for the determination of quercitroside in *Amomum villosum*.There was a good liner relationships between the peak areas and the sample contents within the ranges of 0.127 1-2.542 4  $\mu$ g ( $r=0.99908$ ) and 0.006-0.013  $\mu$ g ( $r=0.99956$ )for bornyl acetate and quercitroside respectively.The average recovery rates of bornyl acetate and quercitroside were 97.95% ( $n=6$ ,RSD=2.08%) and 103.73% ( $n=6$ ,RSD=0.80%),respectively.The methods are simple,rapid and accurate and can be used for quality control of *Amomum villosum*.

**Key words:** *Amomum villosum* GC HPLC bornyl acetate quercitroside content determination

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