

论文

红外光谱法和X-射线粉末衍射法研究棉酚的多晶型

袁锡炳;姜德和;沈海藻;丁洪亮

南京药物研究所,南京210009;*南京中医学院

摘要:

关键词:

STUDY ON POLYMORPHISM OF GOSSYPOL BY INFRARED SPECTROPHOTOMETRY AND X-RAY DIFFRACTION

XB Yuan; DH Jiang; HB Shen and HL Ding

Abstract:

The polymorphism of gossypol has been investigated by IR spectrophotometry and X-ray diffraction. Nine samples of gossypol crystallized from mixed solvent of ether, ethanol and water (1:2:2), five samples from chloroform and ten samples from petroleum ether (bp 60~90°C) were determined. Significant differences in the infrared spectra of gossypol crystallized from three solvents were observed near 3500cm⁻¹. The spectrum of gossypol crystallized from mixed solvent of ether, ethanol and water (mp 183~184°C) showed bands at 3500 (sh), 3470, 3375cm⁻¹; that from chloroform (mp 198~199°C) at 3455, 3415(sh)cm⁻¹ and that from petroleum ether (mp213~214°C) at 3510, 3495, 3430(sh), 3410cm⁻¹. Moreover, the spectra of the three forms of gossypol showed slightly different bands at 780 and 600~400cm⁻¹. Gossypol crystallized from the three solvents showed the same infrared spectra after being crystallized from acetone. Significant differences in the X-ray diffraction pattern of gossypol crystallized from the three solvents were also observed. Angles, intensities and D-values of most of the X-ray diffraction peaks were listed.

Keywords: Polymorphism Infrared spectrophotometry X-ray diffraction Gossypol

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作者简介:

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