

Biochemical Study of Chinese Rhubarb XXXI. Effect of Polysaccharide From *Rheum hotaoense* on Immune System

Yao Wenbing, Chen Qionghua

Division of Biochemistry

The polysaccharide from Chinese *Rheum hotaoense* (RHP) was isolated and its effects on immune system were studied. The results showed, at the doses of 100 and 200 mg/kg by ig administration for 7 days in mice, RHP increased the thymus and spleen weights; the phagocytosis of macrophage, the clearance rate of carbon particles, the production of hemolysins, and the response of lymphoid cells immune to sheep red cells (QHS). RHP also showed a remarkable effect on DNA, protein synthesis and IL-2 production of mice spleen lymphocytes with ConA stimulation. The optimal concentration of RHP for increasing DNA synthesis was 20 $\mu\text{g}/\text{ml}$. The stimulation index was 1.61 for DNA synthesis and 1.56 for protein synthesis. It is suggested that RHP has the effect on immune functions and the effect is quite opposed to those of anthraquinone derivatives of *Rheum*. Therefore, we suggest that there are some components with the different effects in the *Rheum* on the immune system.

Key words *Rheum hotaoense*; Polysaccharide; Immunopromoter; DNA synthesis; Protein synthesis; Interleukin-2

【文摘 020】抗变态反应药曲尼司特稳定性试验

陈 新, 陈钟华, 王丽华, 常福喜. 中国医药工业杂志 1989; 20(11): 517-8

作者对本校制药厂生产的曲尼司特进行了留样观察和光照试验。分别考查了外观、水分、熔点、紫外最大吸收、含量等。结果曲尼司特原料经留样观察 41 个月稳定性良好, 使用期限可定为 3 年, 与国外文献报道一致。光照试验表明遮光保存是必要的。

【文摘 021】GC/FTIR 联用分析麝香风湿油

吴 桥, 邱宁雯, 葛召恒. 药学报 1990; 25(1): 44-8

用气相色谱/富里叶变换红外光谱联用对中成药麝香风湿油作了分析, 鉴定了 10 个主要组分, 并对其中水杨酸甲酯, 桂皮醛和丁香酚三组分用气相色谱内标法作了含量测定。平均回收率为 $100 \pm 1.0\%$, 变

异系数小于 2.0%。

【文摘 022】中药贝母的研究 X II. 商品贝母的调查及鉴定 李 萍, 徐国钧, 徐珞珊, 金蓉鸾. 中草药 1990; 21(3): 26-9, 37

通过对贝母生产区原植物和商品药材调查采集, 在搞清各种贝母性状和显微特征的基础上, 对得自全国 23 个省、市(区)的商品贝母及外销品 90 件进行了基源鉴定, 计 22 种贝母属植物, 以暗紫贝母 *Fritillaria unibracteata* Hsiao et K. C. Hsia, 甘肃贝母 *F. przewalskii* Mazim. ex Batal. 梭砂贝母 *F. delavayi* Franch., 浙贝母 *F. thunbergii* Miq., 伊贝母 *F. pallidiflora* Schrenk, 新疆贝母 *F. walujewii* Rgl., 托里贝母 *F. tortifolia* X. Z. Duan et X. J. Zheng, 平贝母 *F. ussuriensis* Maxim. 和湖北贝母 *F. hupehensis* Hsiao et K. C. Hsia 等的鳞茎应用较广。