

论文

枸杞子中免疫活性成分的分离、纯化及物理化学性质的研究

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摘要:

从宁夏枸杞子提取得到的糖缀合物LBP经DEAE-celulose柱色谱得到5个组分,其中Lbp3,Lbp4和Lbp5分别经CM-SephadexC-50,SephadexG-100,SephadexG-50柱色谱得到均一组分LbGp3,LbGp4和LbGp5。N含量:LbGp30.83%,LbGp41.72%,LbGp59.58%。总糖含量:LbGp393.6%,LbGp485.6%,LbGp58.6%。分子量:LbGp39.25×10<sup>4</sup>,LbGp4 21.48×10<sup>4</sup>,LbGp52.37×10<sup>4</sup>。糖组成为:LbGp3:Ara:Glc=1:1,LbGp4:Ara:Gal:Rha:Glc=1.5:2.5:0.43:0.23,LbGp5:Rha:Ara:Xyl:Gal:Man:Glc=0.33:0.52:0.42:0.94:0.85:1。初步分析表明LbGp4是O-连接的糖蛋白。

关键词: 枸杞子 糖缀合物 多糖

ISOLATION, PURIFICATION AND PHYSICO-CHEMICAL PROPERTIES OF IMMUNOACTIVE CONSTITUENTS FROM THE FRUIT OF *LYCIUM BARBARUM* L.

Huang Linjuan; Lin Ying; Tian Gengyuan and Ji Guozheng

Abstract:

Three glycoconjugates, LbGp3, LbGp4 and LbGp5, were isolated from the fruit of *Lycium barbarum* L. Molecular weights of LbGp3, LbGp4 and LbGp5 were 9.25×10<sup>4</sup>, 21.48×10<sup>4</sup> and 2.37×10<sup>4</sup>, respectively. Carbohydrate contents of LbGp3, LbGp4 and LbGp5 were 93.6%, 85.6%, 8.6%, respectively. LbGp3 was composed of Ara and Gal in a molar ratio of 1:1. LbGp4 was composed of Ara, Gal, Rha and Glc in a molar ratio of 1.5:2.5:0.43:0.23. LbGp5 was composed of Rha, Ara, Xyl, Gal, Man and Glc in a molar ratio of 0.33:0.52:0.42:0.94:0.85:1. Elemental analysis of N contents: LbGp3 0.83%, LbGp4 1.72%, LbGp5 9.58%. The linkage between the glycan and protein may be of O-linkage in LbGp4.

Keywords: Glycoconjugate Polysaccharides *Lycium barbarum* L.

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