

论文

螺旋藻多糖的化学研究

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摘要:

关键词: 螺旋藻多糖 杂多糖

CHEMICAL STUDIES ON THE POLYSACCHARIDE FROM SPIRULINA PLATENSIS HP

Zeng and BJ Guo

Abstract:

PSP (Polysaccharide of Spirulina Platensis), a water-soluble polysaccharide, was isolated and purified from the water extract of Spirulina platensis by chromatography on DEAE-cellulose column and sephadex G-75 column. The structure of the polysaccharide of Spirulina platensis (PSP) has been investigated by using the techniques of periodate oxidation, Smith degradation, acetolysis, IR and <sup>1</sup>H NMR data. The results of these studies indicate that it is a branched heteropolysaccharide. Its monosaccharide composition was identified by paper chromatography, thin-layer chromatography and HPLC. The results indicate that PSP consists of L-rhamnose, D-xylose, D-glucose and an unknown sugar.

Keywords: Heteropolysaccharide Polysaccharide of Spirulina platensis

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