

耕作栽培·生理生化

## 巴戟天水溶性多糖分离纯化的研究

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**摘要** 采取水提醇沉工艺获得了巴戟天粗多糖MOP,用离子交换柱层析方法对粗多糖进行了分级纯化,考察了不同层析缓冲液条件下,巴戟天多糖的动态吸附情况。结果表明:较高pH值和低离子强度的缓冲液有利于巴戟天多糖的吸附,确定层析用缓冲液pH值为8.0~8.5,Tris浓度为0.02mol/L,流速1.5mL/min;在此层析条件下,采用阶段梯度洗脱方式,在NaCl浓度为0, 0.1和0.5mol/L时分别获得巴戟天多糖组分MOHP- I, MOHP- II, MOHP-III,用NaOH洗脱得到了MOHP-IV组分。

**关键词** [巴戟天](#) [多糖](#) [分离](#) [影响](#)

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## Isolation of Water Soluble Polysaccharides from *Morinda officinalis* How<sup>\*</sup>

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### Abstract

The water soluble polysaccharides were extracted with hot water and subsequently precipitated with ethanol from *Morinda officinalis* How (MOP).And the crude polysaccharides were then isolated by anion-exchange chromatography. Effect of different chromatography conditions on adsorption and elution of MOP were discussed, and the results showed that, the adsorbent exhibited better adsorption performance for MOP under higher pH and lower ion strength of buffer solution. Suitable column chromatography condition obtained was: Tris concentration of buffer 0.02mol/L, pH of buffer 8.0~8.5 and flow rate 1.5mL/min.Four polysaccharide fractions, named MOHP- I , MOHP- II, MOHP-III and MOHP-IV respectively were obtained using step-wise elution manner.

**Key words** [Morinda officinalis How](#) [polysaccharides](#) [isolation](#) [effect](#)

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