研究简报

染料壳聚糖微球的制备及其对人血清白蛋白吸附性能研究

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摘要

关键词 壳聚糖 Cibacron Blue F3GA 染料亲和吸附剂 HAS

分类号

# THE PREPARATION OF CIBACRON BLUE F3GA ATTACHED CHITOSAN MICROSPHERES AND THEIR ADSORPTION PROPERTIES FOR HUMAN SERUM ALBUMIN

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Abstract A series of aminated chitosan microspheres were prepared from chitosan, and then an affinity dye—ligand, Cibacron Blue F3GA, was covalently coupled. The maximum attachment of cibacron blue F3GA was 494  $\mu mol\ /\ g$ . Albumin adsorption onto cibacron blue F3GA—attached chitosan microspheres was investigated. The human serum albumin(HSA)equilibrium adsorption capacity WaS 79. 8 mg / s(wet beads). The adsorption equilibrium isotherms appeared to follow a typical Langmuir isotherm. The hisheet desorption ratio(100%)was achieved by using an eluent of 1. 0 mol / L NaSCN(pH 8. 0). The cibacron blue F3GA-attached chitosan microspheres could be reused without significant decreases in the adsorption capacities.

**Key words** Chitosan Cibacron blue F3GA Dye-affinity sorbent HSA

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## 扩展功能

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