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摘要: 综述红外光谱、紫外光谱、核磁共振、质谱、扫描电镜、X射线衍射在甲壳素与壳聚糖及其衍生物的官能团、结构、形貌等研究中的应用, 并对仪器分析在甲壳素与壳聚糖及其衍生物中的应用和发展前景进行展望。

关键词: 甲壳素, 壳聚糖, 红外光谱, 紫外光谱, 核磁共振, 质谱, 扫描电镜, X射线衍射

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Applications of instrumental analysis for chitin, chitosan and its ramification

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Abstract: The applications of infrared spectrum(IR), ultra-violet spectrums(UV), nuclear magnetic resonance(NMR), mass spectrum(MS), scanning electricity microscopy(SEM), and X-ray diffraction in functional group, structure, analysis of chitin, chitosan and its ramification were summarized and prospected the application and development of instrumental analysis techniques in chitin and chitosan and its ramification.

Key words: Chitin, Chitosan, IR pectrums, UV pectrums, NMR, Mass spectrums, Scanning electron microscopy (SEM), X-ray di ffracti on

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