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摘要：本文用紫外光谱、显微傅立叶变换红外光谱和圆二色光谱对聚阳离子海美溴铵（PB）和DNA之间的相互作用进行研究。以溴化乙锭作为与DNA结合的荧光探针，考察PB对其结合体系的影响。荧光分析结果显示，PB与DNA的相互作用可能对DNA二级结构的构型产生影响。IR光谱表明，PB通过磷酸基团和DNA碱基与DNA发生相互作用，DNA/PB复合物的形成引起DNA二级结构的构型变化，这一点也在CD光谱分析中得到验证。

关键词：海美溴铵, DNA, 相互作用, 构型, 光谱分析

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[Studies on the interaction between polybrene and DNA by spectral methods](#)

Abstract: The interaction of polybrene (PB) with hsDNA has been studied by spectroscopic analysis, microscopic IR and CD spectroscopy. Using ethidium bromide (EB) as a fluorescent probe, the binding of PB with DNA was studied. The fluorescence analysis shows that the interaction of DNA with PB may have effect on the conformation of secondary structure of DNA. IR spectra show that PB interacts with DNA through both the phosphate groups and the bases of DNA and the formation of DNA/PB complex causes the change of the conformation of the DNA secondary structure, which is further proved by CD spectra.

Key words: Polybrene, DNA, Interaction, Conformation, Spectral methods

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