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摘要：同所有的化学分析测试方法一样，样品制备是核磁共振分析检测中的一个不可忽视的环节。本文根据实验室多年来开展NMR结构分析研究的体会，就样品制备对核磁共振实验的影响进行分析，重点探讨溶剂选择、样品浓度、溶解水及辅助试剂等几个问题，并通过具体实例说明样品制备环节的合理设计可能在改善核磁共振实验效果和提高谱图质量方面起到关键作用。

关键词：NMR, 样品制备, 氘代试剂

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Effects of sample preparation on nmr structural elucidation of organic compounds

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Abstract: The step of sample preparation could not be ignored in the process of NMR experiment, just like in other instrumental analysis. In this paper, the effects of the sample preparation on the NMR structural elucidation of organic compounds were investigated, based on our experience for years in NMR Lab. The discussion was concentrated on a couple of subjects such as the solvent selection, solute concentration, dissolved water, and auxiliary reagents. With some real cases, it was showed that the NMR experiments and the results would be improved, if the step of sample preparation could be well handled.

Key words: NMR, Sample Preparation, Deuterated solvents

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