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摘要：本文提出一种利用含水量的定量调制测定重水氘代率的核磁共振（NMR）实验方法，并通过实验和推理为所建实验方法提供理论依据。该方法操作环节少，易于定量操控，因而所得结果可信度高。实际样品的测量表明可满足普通核磁共振实验室对重水试剂评估的要求。

关键词：核磁共振, 氘代试剂, 氘代率

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### Determination of the total organic carbon content of high-salt samples by high-temperature oxidation

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Abstract: A new method for determining total organic carbon (TOC) in sodium chloride solution and sodium carbonate solution is developed. It is simple and time-saving that a measurement can be finished within three minutes. The method is proved accurate and reliable by spiking test with 92% recovery, and can be widely used in fields of environmental monitoring and pharmacy.

Key words: High temperature oxidation, Total organic carbon(TOC), High salt content, Environmental monitoring

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