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Spectroscopy Nmr Water Proton  
Relaxation In

This study shows modifications of 20-MHz NMR water proton relaxation rates in ultrahigh dilutions of histamine in water and in saline, at dilution levels higher than  $C_4$  ( $10^{-8}$ ), i.e. beyond the sensitivity of the technique to detect the

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initial solute. Drastic experimental procedures were applied, especially similarly prepared controls and repeated series, and blind measurements, in order to avoid several sources of artefacts.

NMR water proton relaxation in unheated and heated ...

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The spin lattice relaxation time (T1) and spin spin relaxation time (T2) of water protons of normal human and animal tissues are archived to up-date those already published. The mechanisms for...

(PDF) NMR relaxation data of water proton in normal tissues

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T2 relaxation is a complex phenomenon, but at its most fundamental level, it corresponds to a decoherence of the transverse nuclear spin magnetization. Random fluctuations of the local magnetic field lead to random variations in the instantaneous NMR precession frequency of different spins.

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Relaxation (NMR) - Wikipedia

NMR Relaxation Enhancement of Water

Protons by Gd-Doped Boron Nitride

Nanotubes. The Journal of Physical

Chemistry C 2014, 118 (12) , 6473-6479.

DOI: 10.1021/jp412091t. Weiran Cheng,

Inga E. Haedicke, Joris Nofiele, Francisco

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Martinez, Kiran Beera, Timothy J. Scholl,  
Hai-Ling Margaret Cheng, and Xiao-an  
Zhang . ...

Paramagnetic metal complexes as water  
proton relaxation ...

Water Histamine NMR relaxation

Ultrahigh dilution Air nanobubbles We



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measured 20-MHz  $R_1$  and  $R_2$  water proton NMR relaxation rates in ultrahigh dilutions (range  $5.43 \cdot 10^{-8}$  M –  $5.43 \cdot 10^{-48}$  M) of histamine in water (Hist-W) and in saline (Hist-Sal), prepared by iterative centesimal dilutions under vigorous agitation in controlled atmospheric conditions.

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NMR water proton relaxation in unheated and heated ...

These fractions of water are characterized with different nuclear magnetic resonance (NMR) relaxation times and are identified with the different parts of tissue water.

The water associated with the

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macromolecules was found to be approximately 8% of the total tissue water and not to exchange rapidly with the rest of the intracellular water.

Nuclear Magnetic Resonance Transverse  
Relaxation Times of ...

Longitudinal (T 1) and transverse (T 2)

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Unheated And Heated relaxation times and diffusion coefficient (D) of water protons in diepoxide 1,4-butanediol diglycidyl ether (BDDE)-cross-linked HA hydrogels were analyzed by high-field NMR spectroscopy to distinguish between different physicochemical properties. Hydrogels of different degrees of modification and cross-

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linking, representing a range of gel  
content, swelling ability, elastic and  
viscous behavior were studied, as well as  
solutions of native HA of ...

Relaxation and diffusion of water protons  
in BDDE cross ...  
enhances the proton relaxation rates of

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Unheated And Heated water, referred to as relaxivity, must be sufficient to significantly increase the relaxation rates of the target tissue. The dose of the complex at which such alteration of tissue relaxation rates occurs must of course be nontoxic. As small as 10-20% increases in  $1/T_1$  could be detected by NMR imaging.

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04-02 T1 on the Microscopic Scale The relaxation times of pure substances, for instance water, can be easily explained. A living system, however, contains a large number of chemical components, all of

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which contribute to the observed proton magnetic resonance signal. These components possess different relaxation times.

04-02 | Relaxation Times and Basic Pulse Sequences ...

For when labile protons must be observed,



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there is a "flip-back" version that preserves their signal, even when they are exchanging with the suppressed water signal. PURGE (Pre-saturation Utilizing Relaxation Gradients and Echoes) is another (pre-saturation) solvent suppression technique.

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Water Suppression | NMR Core Facility

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Comparison of NMR water proton T1 relaxation times of ...

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Analysis of the  $^1\text{H}$ - $^{17}\text{O}$  dipolar contribution to the proton longitudinal relaxation rate in  $^{17}\text{O}$ -enriched water yields a correlation time for reorientation of the O-H vector  $\tau_{\text{OH}} = (1.71 \pm 0.07)$  ps in  $\text{H}_2\text{O}$  at  $25^\circ\text{C}$ . This result is insensitive to uncertainties in the calculated intermolecular relaxation

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Determination of the Rotational  
Correlation Time of Water ...

Water Proton NMR: A Tool for Protein  
Aggregation Characterization. Taraban  
MB(1), DePaz RA(2), Lobo B(2), Yu  
YB(1). ... we compared conventional

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techniques for the analysis of protein aggregates with a novel approach that employs the water proton transverse relaxation rate  $R_2(1H_2O)$ . We explored differences in the sensitivity of conventional ...

Water Proton NMR: A Tool for Protein

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The presence or absence of H<sub>2</sub>O coordinated to a paramagnetic center can in principle be monitored by solvent water <sup>1</sup>H NMR, 69 by exploiting the occurrence of a magnetic interaction between the magnetic moments of the unpaired electrons and the nuclear magnetic

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moments of the water protons. When this interaction fluctuates with time, it causes a shortening of the water-proton relaxation times.\*

2.4: Coordinated Water and NMR -  
Chemistry LibreTexts

Abstract: The  $^{17}\text{O}$  isotopomer of the water-

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endofullerene H<sub>2</sub>O@C<sub>60</sub> displays a remarkable proton NMR spectrum, with six well resolved peaks. These peaks are due to the J-coupling between the water protons and the <sup>17</sup>O nucleus, which has spin-5/2. The resolution of these peaks is enabled by the suppression of water proton exchange by the fullerene cage.



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NMR lineshapes and scalar relaxation of the water ...

Unlike currently used analytical techniques involving visual observations and/or monitoring of several optical properties using specialized glassware, water proton nuclear magnetic resonance

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(wNMR) used in this work allows one to analyze samples in their original sealed container regardless of its opacity and/or labeling. It was demonstrated that the water proton transverse relaxation rate could be used to monitor in real time the sedimentation process of two widely used aluminum adjuvants ...

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Monitoring of the sedimentation kinetics  
of vaccine ...

Water proton NMR detection of amide  
hydrolysis and diglycine dimerization.

Chemical Communications 2018, 54 (51) ,  
7003-7006. DOI: 10.1039/C8CC03935F.

Gloria Brusotti, Enrica Calleri, Raffaella

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Colombo, Gabriella Massolini, Francesca  
Rinaldi, Caterina Temporini.

Water Proton NMR: A Tool for Protein  
Aggregation ...

Abstract NMR water-proton spin-lattice  
relaxation times were studied as probes of  
water structure in human red blood cells

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and red blood cell suspensions. Normal saline had a relaxation time of about 3000 ms while packed red blood cells had a relaxation time of about 500 ms.

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