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Title:	Disentangling diffusion information of individual components in a mixture with a 3D COMPACT-IDOSY NMR experiment			
Authors:	Shukla, Matsyendranath (/jspui/browse?type=author&value=Shukla%2C+Matsyendranath) Dorai, K. (/jspui/browse?type=author&value=Dorai%2C+K.)			
Keywords:	DOSY 3D heteronuclear pulse sequence HMBC			
Issue Date:	2012			
Publisher:	Willey			
Citation:	Magnetic Resonance in Chemistry 50 (5) , pp. 341-346			
Abstract:	A new 3D diffusion-ordered heteronuclear NMR experiment COMPACT-IDOSY (cross-polarization optimized multisite polarized accelerated time internally encoded diffusion ordered spectroscopy) has been designed and experimentally implemented on a mixture of flavonoids rutin and quercetin. The pulse sequence uses a cross-polarization mixing period and diffusion encoding gradients internally incorporated into the coherence transfer interval of a long-range heteronuclear correlation experiment. Substantial reduction in experimental time, good sensitivity and excellent resolution of signal overlap lead to the accurate determination of translational diffusion coefficients of individual components in the mixture.			
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