



Reaction in 100 mm deuterioacetate buffer pH4

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Research & Development | MCAT GmbH

Field strength: 400 MHz

Why is this your favorite spectrum?

“As Time Goes By:” not only a song from the fantastic motion picture “Casablanca,” but also a great description for this time-resolved NMR spectrum. It shows nicely the reaction of a carbohydrate with an oxyamine, forming the corresponding mixture of open-chained oxims and the closed *N*-glycosides in a 100 mm deuterioacetate buffer with pH 4. Displayed in different colors for every single NMR spectrum, it’s a beautiful way to show the reaction progress and therefore looks more like art than science.

This is work from my PhD thesis in the group of Prof. Whitmann, University of Konstanz.