

Agilent BioSolids Pack for VnmrJ

Data Sheet



Introduction

Agilent BioSolids Pack adds a comprehensive range of sequences for characterizing the structure and function of membrane and crystalline proteins to Agilent VnmrJ software. It is composed of sequences that form a library of ^1H and ^{13}C -detect, 2D, and 3D experiments that correlate ^1H , ^{13}C , and ^{15}N chemical shifts. A variety of mixing sequences and evolution options can be selected. In addition, constant time decoupling and optional Y-channel (^{15}N) decoupling are supported.

BioSolids Pack can be run in the BioPack environment to add acquisition with non-uniform sampling, multi-dimensional processing, and access to NMRPipe. Experiments can be run and queued using the VnmrJ StudyQ with access to calibrations in the probe file. Protocols using the 1D sequence ahX provide autocalibration for pulse widths, cross polarization, and band-selective shaped pulses.

BioSolids Pack is built from user experimental contribution and will expand over time with additional experiments.



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Acknowledgments

BioSolids Pack is built upon contributions of pulse sequences from the solid state NMR community and could not exist in its current state without generous donations of new and novel pulse sequences. Agilent Technologies would particularly like to acknowledge the help of Professor Chad M. Rienstra and his group at the University of Illinois at Urbana-Champaign for providing the initial sequences for BioSolids Pack.

Ordering information

| Description | Part number |
|------------------------|-------------|
| Agilent BioSolids Pack | G5031AA |

Minimum requirements

| | |
|------------|----------------------|
| VnmrJ | Version 3.2 or later |
| NMR System | DD2 or VNMRS console |

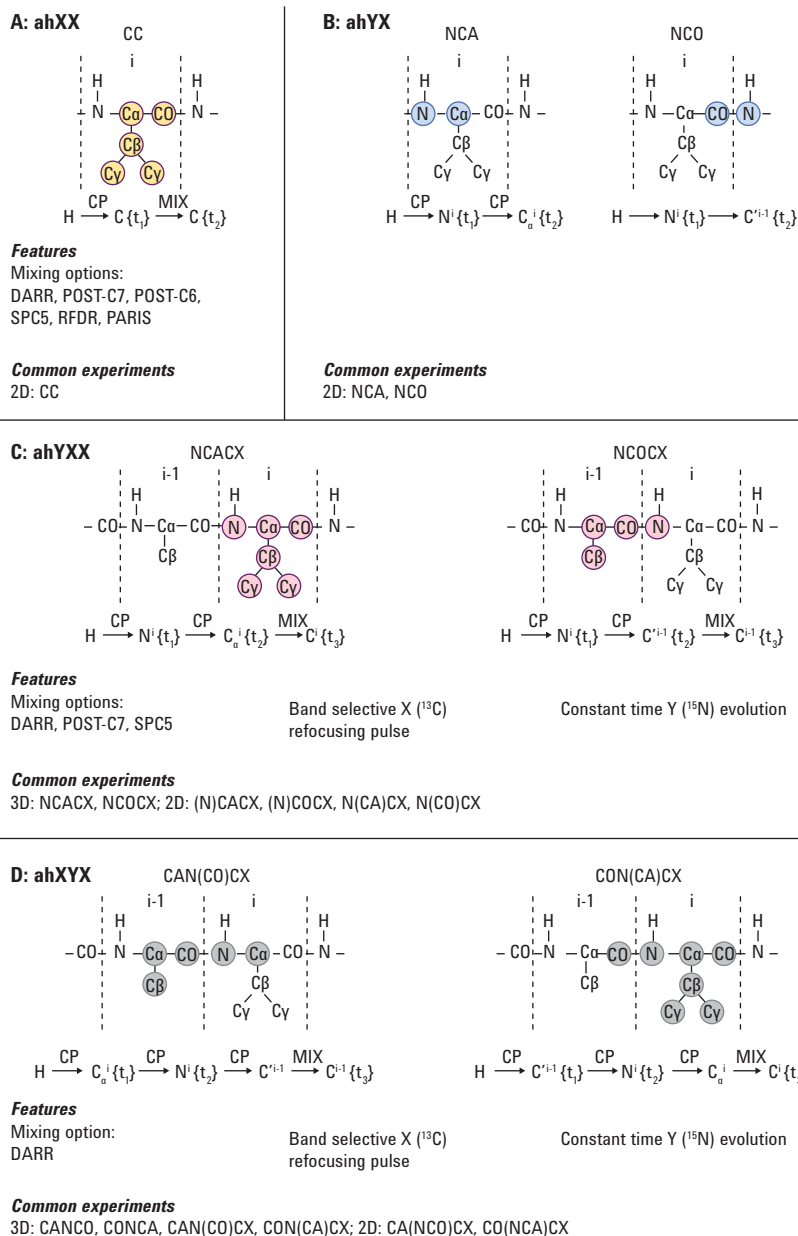


Figure 1. Summary of the multi-dimensional pulse sequences in BioSolids Pack as of January 2012. Individual sequences correspond to an individual coherence transfer pathway. Mixing and acquisition options are selected with flags.

www.agilent.com/chem/nmr

This information is subject to change without notice.

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