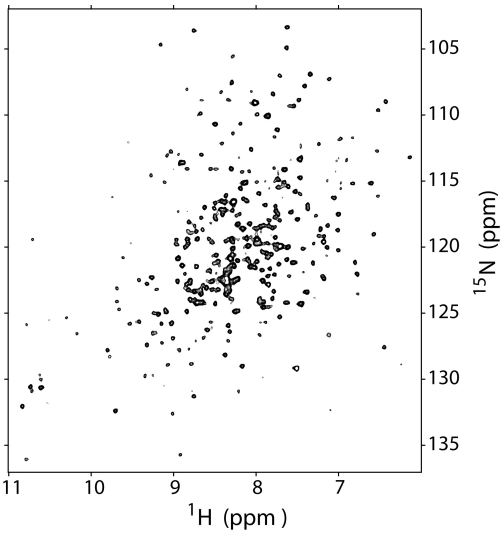
DAEDALUS INNOVATIONS

Reverse Micelle Introductory Kit

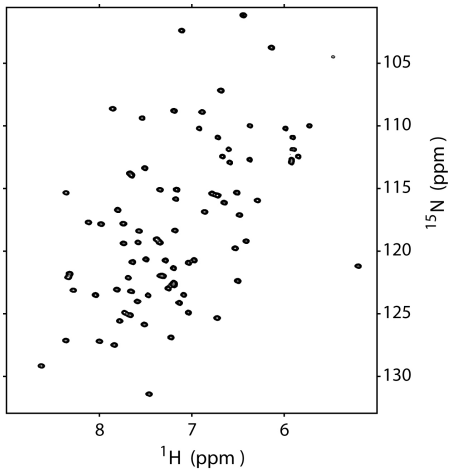


^{15}N-TROSY HSQC of maltose binding protein encapsulated in the surfactant CTAB solubilized in pentane. Collected on a 600 MHz instrument equipped with a cryoprobe.

A decade ago Wand and coworkers introduced a novel approach to the study of the large soluble proteins. The idea is simple. Encapsulate the protein of interest within the protective water core of a reverse micelle and dissolve the resulting particle in a solvent of very low viscosity such that the entire particle will tumble faster than the isolated protein does in water. In addition to comprehensive access to NMR data of large proteins, the reverse micelle encapsulation strategy has proven useful in the context of both integral and membrane anchored proteins, RNA, proteins of marginal stability or otherwise poor free solution behavior, and a variety of applications in biopolymer physics and chemistry.

But how does one put the reverse micelle encapsulation approach into play?! That question can be answered with this new sample preparation kit from Daedalus Innovations. Using two of the most common surfactants, sodium bis(2-ethylhexyl) sulfosuccinate (AOT) and hexadecyltrimethylammonium bromide (CTAB), this kit provides all the reagents necessary to make NMR quality samples of two model proteins and compare them to known results. See how simple the process is and then start applying it to your favorite protein. No special equipment is required to use this kit. The kit includes the following list of components:

Qantity	Item Description
2	2 mg aliquots of lyophilized ^{15}N ubiquitin F45W variant
2	2 mg aliquots of lyophilized ^{15}N maltose binding protein
2	Recrystalized AOT aliquots in 2 mL glass vials
2	Recrystalized CTAB aliquots in 2 mL glass vials
1	Aliquot of hexanol
4	750 µL aliquots of deuterated pentane in glass break-top ampules
4	Screw-cap glass NMR tubes
1	Instruction manual with a section covering the basics of reverse micelle encapsulation



^{15}N-HSQC of ubiquitin encapsulated in AOT solubilized in pentane. Collected on a 500 MHz instrument equipped with a cryoprobe.

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First delivery June, 2011.
Quantities may be limited.