



Revolution NMR LLC Announces **Commercial Availability of Cryogenic MAS Probe** **Developed by Dr. Robert Tycko of NIH**

Revolution NMR, LLC is pleased to announce that the cryogenic MAS probe¹ developed by Dr. Robert Tycko of the National Institutes of Health is now commercially available. Testing in Dr. Tycko's laboratory at the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) has shown that the prototype produced by Revolution NMR produces the expected enhancement in signal-to-noise at approximately 30°K (Figure 1 below) and spinning stability sufficient to enable the efficient collection of 2-D spectra (Figure 2 on back)

¹³C CP-MAS spectra, 9 mg of U-¹³C-valine powder
one scan, 8.00 kHz spinning,
75 kHz TPPM decoupling
same vertical scale for both spectra

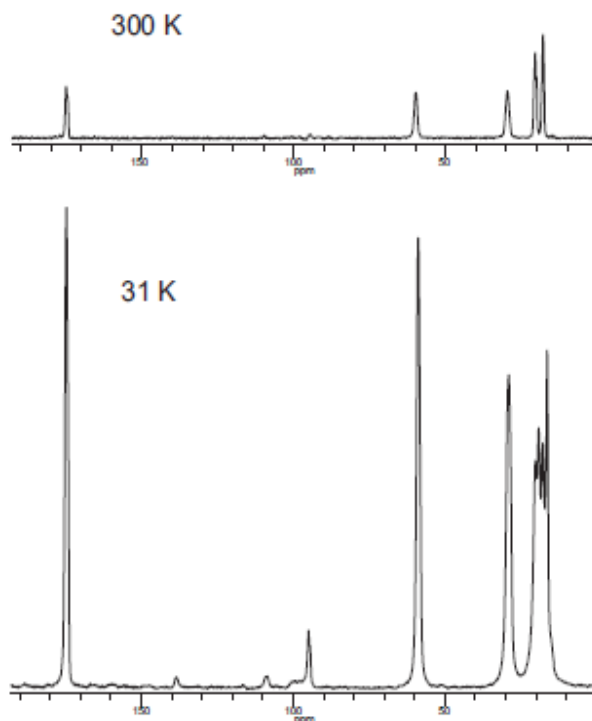


Figure 1.

Please contact us for detailed specifications, pricing and delivery



2D ^{13}C - ^{13}C spectrum of U- ^{13}C -valine powder
sample temperature = 28.5 K (based on KBr T1 = 33 s)
6.80 kHz spinning, 3.53 ms fpRFDR mixing
75 kHz decoupling
two scans per t1 point, 150 t1 points, 40.02 us t1 increment

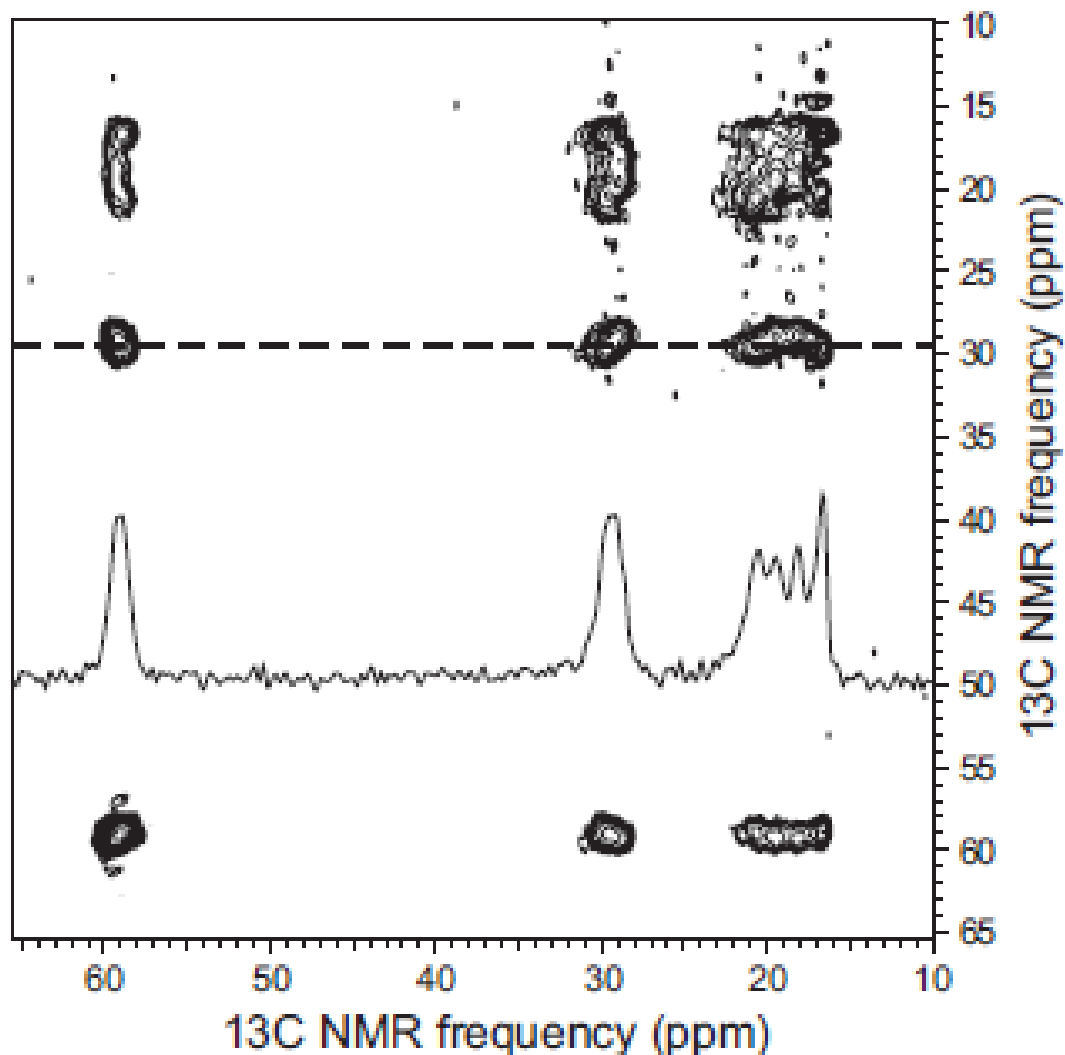


Figure 2.

1. Kent R. Thurber, Robert Tycko, Biomolecular solid state NMR with magic-angle spinning at 25 K, *Journal of Magnetic Resonance* 195 (2008), 179 - 186