

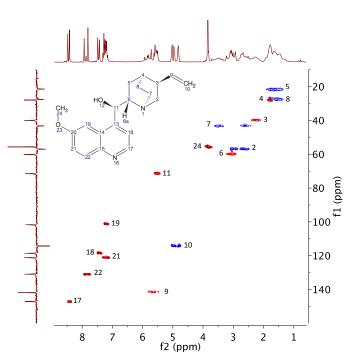
Spinsolve 80

Experience the most powerful benchtop NMR spectrometer



Outstanding Features

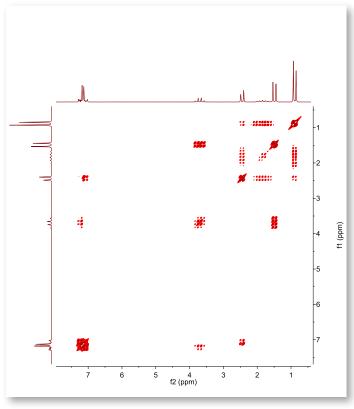
- Highest field strength (80 MHz ¹H frequency)
- Largest chemical shift spread
- Highest sensitivity
- Superb Resolution
- Classic LW 50/0.55% < 0.4 / 16 Hz
- ULTRA LW 50/0.55/0.11% < 0.25 / 10 / 20 Hz
- Multi-nuclear probe
- 5 mm standard NMR tubes
- No sample spinning required
- Advanced methods like COSY, HSQC, HMBC, etc.
- Benchtop size and weight
- No cryogens
- Available with automatic sample changer

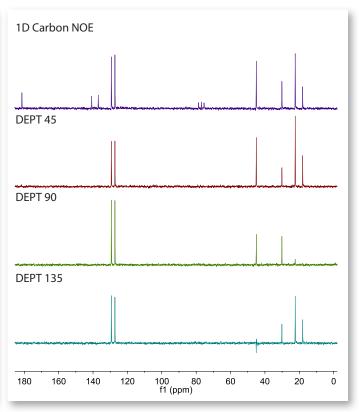


80 MHz HSQC-ME of Quinine

The most advanced multi-nuclear methods... in one click!

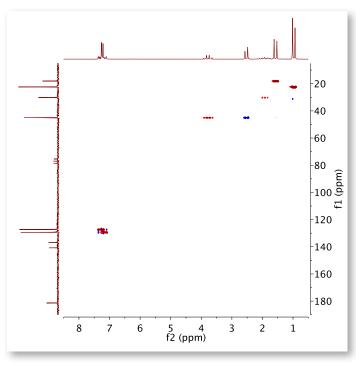
80 MHz NMR spectra of Ibuprofen

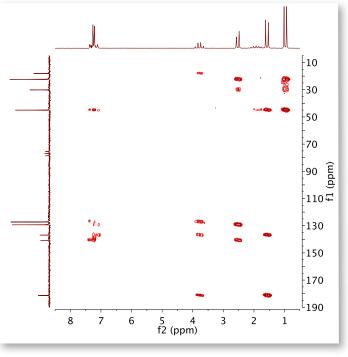




H-H COSY

1D Carbon plus DEPT 45, 90, and 135 spectra



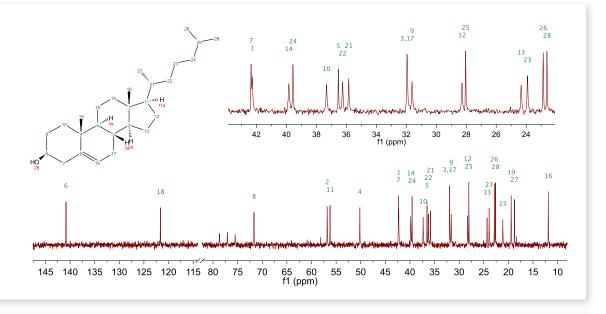


HSQC-ME HMBC

¹³C spectroscopy exploited for structure elucidation

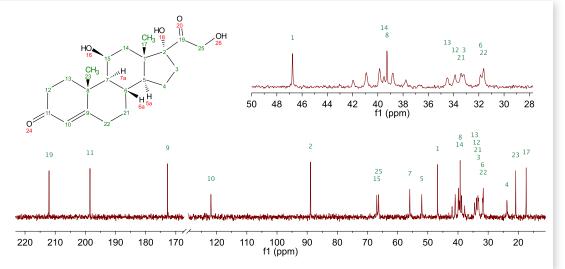
Cholesterol

C27H46O, Mw: 386.65 g/mol Concentration: 400 mMolar Solvent: CDCl3



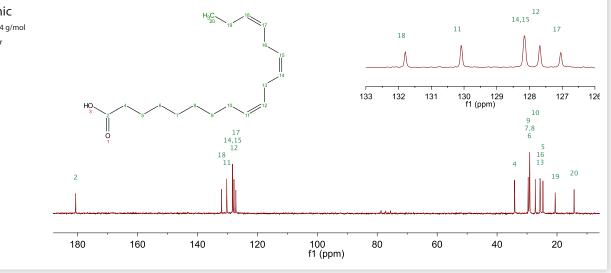
Hydro-Cortisone

C21H30O5, Mw: 362.4 g/mol Concentration: 500 mMolar Solvent: DMSO



alpha-Linolenic

C18H30O2, Mw: 278.44 g/mol Concentration: 1 Molar Solvent: CDCl3



Spinsolve 80



Specifications

- Nuclei: ¹H, ¹⁹F, ¹³C (Other Nuclei Available)
- Operating frequency: 80 MHz (1H)
- ¹H Linewidth:
 - Classic 50 / 0.55% < 0.4 / 16 Hz
 - ULTRA 50 / 0.55 / 0.11% < 0.25 /10 / 20 Hz NEW
- ¹H Sensitivity (dual channel): >200:1 for 1% Ethyl Benzene
- Operating Temperature Range: 18° C to 28° C (65° F to 82° F)
- Dimensions: 58 x 43 x 40 cm (23" x 17" x 16")
- Weight: 72.5 kg (160 lb)
- Stray Field: < 2 G all around system
- Voltage Requirement: 100-240 VAC, 50/60 Hz
- · Available with automatic sample changer
- Available with pulsed field gradients

 NEW



Pulse sequences available on the Spinsolve 80 Carbon spectrometer

Proton	Fluorine	Carbon
1D proton	1D Fluorine with ¹ H decoupling	1D Carbon with ¹ H and ¹⁹ F decoupling
1D PRESAT solvent suppression	Paramagnetic	DEPT
1D with ¹⁹ F and ¹³ C decoupling	2D F - COSY	APT
2D COSY	2D F - JRES	HETCOR
2D TOCSY	2D FH - COSY	HSQC
2D ROESY	T,	HSQC-ME
2D JRES	PFG-DOSY	HMQC
T ₁ , T ₂	Reaction Monitoring	HMBC
PFG-DOSY		
Reaction Monitoring		

Other sequences available, contact Magritek for details.

Contact us now for a quote, to request a demo or to measure your samples

Email: <u>sales@magritek.com</u>

Website: www.magritek.com/contact-us

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