

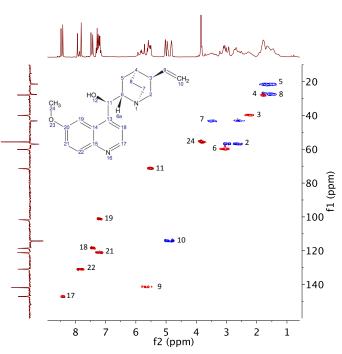
Spinsolve 80

Experience the most powerful benchtop NMR spectrometer



Outstanding Features

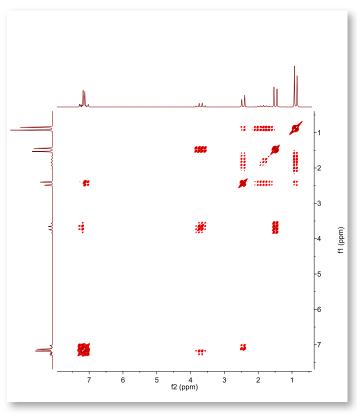
- Highest field strength (80 MHz)
- · Largest chemical shift spread
- Highest sensitivity
- Superb Resolution (0.5 Hz/20 Hz)
- Multi-nuclear probe
- 5 mm standard NMR tubes
- No sample spinning required
- Advanced methods like COSY, HSQC, HMBC, etc.
- · Benchtop size and weight
- No cryogens
- · Available with automatic sample changer

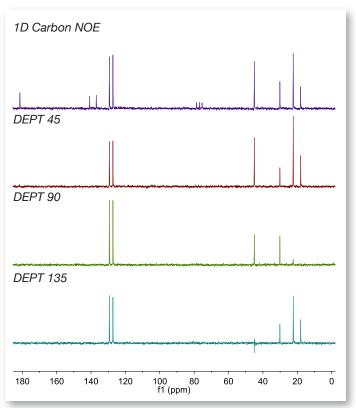


80 MHz HSQC-ME of Quinine

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

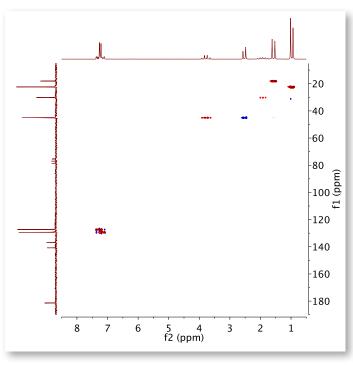
80 MHz NMR spectra of Ibuprofen

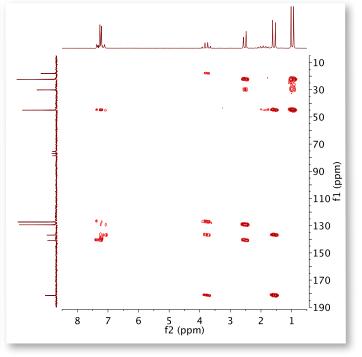




H-H COSY

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



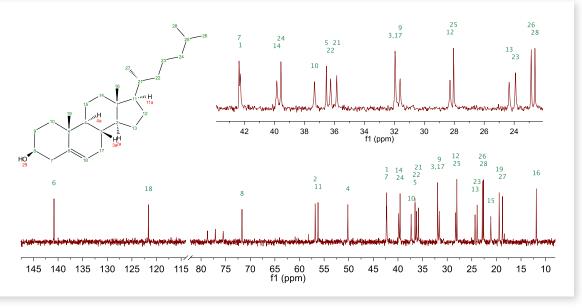


HSQC-ME HMBC

¹³C spectroscopy exploited for structure elucidation

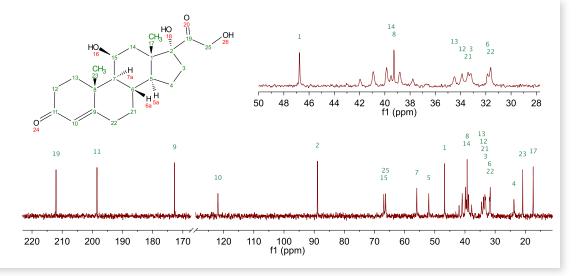
Cholesterol

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



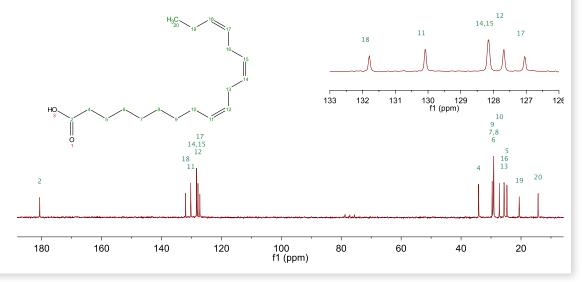
Hydro-Cortisone

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



alpha-Linolenic

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







Specifications

• Nuclei: ¹H, ¹⁹F, ¹³C (Other Nuclei Available)

Operating frequency: 80 MHz (¹H)

• 1H 50% Linewidth: < 0.5 Hz

• 1H 0.55% Linewidth: < 20 Hz

• 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



Pulse sequences available on the Spinsolve 80 Carbon spectrometer

Proton	Fluorine	Carbon
1D	1D	1D with proton decoupling
1D for paramagnetic products	Paramagnetic	DEPT
1D with carbon decoupling	2D F - COSY	APT
2D COSY	2D F - JRES	HETCOR
2D TOCSY	2D FH - COSY	HSQC
2D ROESY	Reaction Monitoring	HSQC-ME
2D JRES		HMQC
$T_{\scriptscriptstyle 1},T_{\scriptscriptstyle 2}$		HMBC
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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