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

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 NOE
- DEPT 45
- DEPT 90
- DEPT 135

HSQC-ME

HMBC

1D Carbon plus DEPT 45, 90, and 135 spectra
$^{13}$C spectroscopy exploited for structure elucidation

**Cholesterol**
C$_{27}$H$_{46}$O, Mw: 386.65 g/mol  
Concentration: 400 mMolar  
Solvent: CDCl$_3$

**Hydro-Cortisone**
C$_{21}$H$_{30}$O$_5$, Mw: 362.4 g/mol  
Concentration: 500 mMolar  
Solvent: DMSO

**alpha-Linolenic**
C$_{18}$H$_{30}$O$_2$, Mw: 278.44 g/mol  
Concentration: 1 Molar  
Solvent: CDCl$_3$
Specifications

- Nuclei: $^1$H, $^{19}$F, $^{13}$C (Other Nuclei Available)
- Operating frequency: 80 MHz ($^1$H)
- $^1$H 50% Linewidth: < 0.5 Hz
- $^1$H 0.55% Linewidth: < 20 Hz
- $^1$H Sensitivity (dual channel): >200:1 for 1% Ethyl Benzene
- Operating Temperature Range: 20° C to 25° C (68° F to 77° 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

Pulse sequences available on the Spinsolve 80 Carbon spectrometer

<table>
<thead>
<tr>
<th>Proton</th>
<th>Fluorine</th>
<th>Carbon</th>
</tr>
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<tbody>
<tr>
<td>1D</td>
<td>1D</td>
<td>1D</td>
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<tr>
<td>Paramagnetic</td>
<td>Paramagnetic</td>
<td>DEPT</td>
</tr>
<tr>
<td>2D COSY</td>
<td>2D F - COSY</td>
<td>HETCOR</td>
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<tr>
<td>2D TOCSY</td>
<td>2D F - JRES</td>
<td>HMBC</td>
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<tr>
<td>2D JRES</td>
<td>2D FH - COSY</td>
<td>HMQC</td>
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<tr>
<td>$T_1$, $T_2$</td>
<td>Reaction Monitoring</td>
<td>HSQC</td>
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<tr>
<td>Reaction Monitoring</td>
<td></td>
<td>HSQC-ME</td>
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</tbody>
</table>

Other sequences available, contact Magritek for details.

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

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