

Nuclear Magnetic Resonance (NMR) Spectroscopy



Bruker Avance 300 MHz NMR spectrometer

Features:

- ▶ Flexible communication structure
- ▶ Advanced RF generation
- ▶ Unparalleled dynamic range
- ▶ Performance leading liquids probes
- ▶ Industry leading TopSpin operating software
- ▶ Broad array of automation

Applications:

- ▶ Routine NMR Spectra in the synthesis pathway
- ▶ Air/moisture sensitive compounds
- ▶ Structure elucidation from unknown to 0.1% impurities
- ▶ Formulation breakdown of pharmaceuticals, therapeutics and agrochemicals
- ▶ Routine quantification of actives and excipients where chromatographic techniques are troublesome
- ▶ Capability to run both 1D and 2D NMR experiments
- ▶ Spectrometer equipped with a broadband probe that allows the observation of most nuclei including ^1H , ^{13}C , ^{19}F and ^{31}P



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