

NMR Spetrometer

Bruker Avance III 400 MHz



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NMR Spectrometer, Bruker Avance III 400 MHz model, for liquids (manufacturer: Bruker, Germany, 2009)

General characteristics

The Nuclear Magnetic Resonance spectrometer (NMR) is used to support advanced research activities, as well as for routine quality control of liquid or soluble organic compounds, natural compounds or complex mixtures of organic compounds.

It is equipped with an active shielded superconducting magnet ("ultrashield") with a magnetic field of 9.39 Tesla. The system is equipped with two frequency channels, which allow the generation of broadband frequencies in the minimum range of 6-400 MHz for detection of the hydrogen, carbon, fluorine, nitrogen and phosphorus nuclei.

The NMR spectrometer is equipped with a linear amplifier with a minimum pulse power of at least 50 W in the range ^1H - ^{19}F and a linear amplifier with a minimum pulse power of at least 135 W in the range 6-365 MHz.