

## Bruker Avance III 600 MHz NMR Spectrometer – Specification

<b>Field Strength</b>	600 MHz / 11.4 Tesla
<b>Number of Channels</b>	2 (One for $^1\text{H}$ at 600 MHz, One for broad band covering all low field nuclei)
<b>Probe</b>	5mm PABBI 600MHz S3 probe with Z-gradient 5mm PASEI 600MHz S3 probe with Z-gradient
<b>Autosampler</b>	SampleXpress system with 60 sample holding slots
<b>Spinner</b>	5mm (short 4" and long 7" NMR tube); 3mm (short 4" NMR tube)
<b>Sample size</b>	500 ul (5mm tube); 150 ul (3mm tube)
<b>Variable Temperature</b>	10-80 °C
<b>Software</b>	TopSpin 3.1 with auto-lock, auto-tuning and auto-shimming functions as well as IconNMR for fully automated NMR data collection with SampleXpress
<b>Pulse Programs</b>	Over 300 build-in and house-made pulse programs for standard 1D, 2D and 3D NMR experiments for analysis of small molecules and peptides