



SampleJet

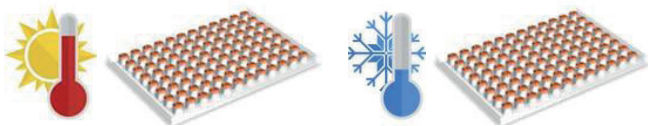
● High Throughput and Open Access Sample Changer

The SampleJet is the only robot for NMR automation which works with NMR tubes in 96-well format and is compatible with standard liquid-handling lab-automation devices. The SampleJet allows a continuous automation workflow in the microwell-plate format, from sample preparation through the NMR measurement and subsequent sample processing.

Features

- Five positions for NMR tube racks in 96-well format andles batches of up to 480 sample tubes
- Spinner-free open access: SampleJet provides 96 positions for tubes without spinners (plus 3 positions for tubes with spinners)
- The SampleJet can handle the most common sample tube diameters such as 5 mm (550 ul), 3 mm (170 ul), 1.7 mm (37 ul) and 1 mm (8 ul)
- Tube diameters are automatically recognized by a bar-code reader and the appropriate spinner is chosen
- Automatic tube and rack bar code identification
- Compatible with most Bruker magnets and spectrometer lines
- Control software TopSpin™ and IconNMR™
- Optionally, individual temperature control between 4 and 44 °C for each 96-well rack is available, allowing many different applications in parallel

The SampleJet holds up to 480 NMR samples in five 96-well racks. In the cooled version, each rack can be set to an individual temperature between 4 and 44 °C for simultaneous measurement of chilled biological samples in aqueous buffer and compounds dissolved in DMSO.



- QC of DMSO stock solution
- QC and reference 1D in buffer
- Protein containing screening samples

In addition to batch mode operation, the SampleJet is also designed for sequential single tube submission for open-access routine NMR. There are 96 open shop positions for 4 and 7 inch tubes without spinners and three positions for 7 inch tubes with spinners. This allows a total of 579 samples to be loaded in the robot.

The space requirement for the SampleJet is in full compliance with the ceiling height requirements for the NMR magnet.

Additional features:

- Return of samples from open shop to a waste rack after measurement
- Preheating station with eight positions for tempering samples at measurement temperature and removing condensed water. This reduces pre-tempering of samples in the probe head and subsequently increases throughput.

