

Probes	PFG	ICG	TXI (‘BioFlow NMR’)	DPC	MultiFlow NMR
Specs					
Description	Proton with Gradient	Indirect Carbon Gradient	Triple, Inverse Gradient	Dual Indirect Carbon with Polarization	Ask about Advanced Configurations
Nuclei	<sup>1</sup> H / <sup>2</sup> H lock	<sup>1</sup> H{ <sup>13</sup> C} / <sup>2</sup> H lock	<sup>1</sup> H{ <sup>13</sup> C}{ <sup>15</sup> N} / <sup>2</sup> H lock  Also available with { <sup>31</sup> P}	<sup>1</sup> H{ <sup>13</sup> C} / <sup>2</sup> H lock  <sup>1</sup> H{ <sup>13</sup> C} / <sup>2</sup> H lock	How Would You Use Multiple Flowcells?
Flowcells	10 μL	5 or 10 μL	10 μL FEP	10 μL	Your Choice!
Gradient	z- Gradient	z-Gradient	z-Gradient	Phase Encode	Z-Gradient
Applications	Library Building Compliance	Natural Products Synthesis Confirm Metabolite ID Trace Impurities	Expression / Screening Protein / DNA / RNA Serum / Urine / CSF	Ultra-High Throughput	Multi-User Foreground / Background

### Researchers, Get Published Faster!

Protasis CapNMR probes let you get the spectra to elucidate and confirm spectra in record time. MicroFlow NMR provides you with the highest mass sensitivity and highest data quality attainable. That means that you only need a miniscule amount of material to obtain a full suite of proton and correlation spectra to fully characterize your novel molecule. That saves you valuable time up front because you can collect less, make less or grow less material. And sensitivity and low noise can also save you time in the magnet, so that you can get more work written up to keep up with new trends in discovery research.

### Managers, Automate Your NMR Operations Efficiently!

MicroFlow NMR probes quickly pays for themselves. You will find your research group spending less time preparing samples. You will stop worrying about the cost of deuterated solvents or isotopically labeled reagents. You can eliminate NMR tubes from your budget. Magnet time will no longer be a bottleneck. These benefits accrue naturally, through miniaturization. When you ready, ramp up the samples to hundreds per day using Protasis [One-Minute NMR](#) automation.

### Analysts, Prepare for Integrated Metabolomics!

Markers in biofluids can provide a detailed and specific view into pharmaceutically relevant processes and conditions; most importantly metabolism and disease state. One popular approach is to collect data on a large number of samples and treat these data statistically to tease out patterns that can lead to better understanding of the underlying biochemistry and, ultimately, better pharmaceuticals. MicroFlow NMR can speed this workflow on the front-end by requiring less sample for analysis and on the back-end with trouble-free high throughput analysis. Automated cleaning protocols ensure low carryover.



MicroFlow NMR for  
Varian, Bruker &  
JEOL  
300 MHz—800 MHz