Protasis Corporation

734 Forest Street
Marlboro, MA 01752

T: (508) 481-4163
F: (508) 481-4190 E: d.strand@protasis.com

CapNMR™ probe

Nuclei	$^{1}H\{^{13}C,^{15}N\}/^{2}H$ lock
^{1}H Frequency	600 MHz
Gradient	z-Directed
NMR Flowcell	5 μL, EOF
Fluidic Connectors	Hastalloy unions compatible with all known NMR solvents and designed to accommodate standard 1/16" and 1/32" o.d. tubing
Resolution/Lineshape (^{1}H)	(5% $CHCl_3$ in acetone-d_6, stopped flow, flowcell filled, LB=0)
	50% < 1 Hz
	0.55% < 10 Hz
	0.11% < 20 Hz
Proton 90° Pulse Width (2 W)	≤ 6 μs
Indirect Detect Carbon 90° Pulse Width (5 W)	≤ 15 μs
Indirect Detect Nitrogen 90° Pulse Width (30 W)	≤ 35 μs
VT Control* (gas source supplied by customer)	0 - 50 °C
Proton Signal to Noise	

10 mM sucrose in 100% D_2O with 0.1 mM NaN_3, quantity sufficient to overfill flowcell. Anomeric proton. LB=0.7 Hz.	> 33:1 single scan

RF connectors	BNC or N
RF Homogeneity (450°/810°)	75%/50%
Gradient Specifications	

Strength: (typical)	35 G/cm/A
Maximum recommended duty cycle	< 10 %
Maximum recommended drive current	< 10 A

*** For Bruker and JEOL systems, probe interfaces to spectrometer manufacturer's heater, supplied by customer**