

## External Client NMR Service Pricing

\*The following prices are in Canadian dollars per sample, and are in effect **May 1, 2016 to May 31, 2017**.

Service Requested	Academics	Commercial or Government	Comments and Notes <i>(see page 2)</i>
Full NMR Acquisition	75	110	<i>1, 2, 3, 4</i>
NMR Data only	35	55	<i>Please read note 5 carefully</i>
Variable Temperature (VT): <i>(solvent-dependent)</i>			
Each VT point above room temp (RT)	30	40	<i>Max. 100°C</i>
First VT point below RT	60	80	<i>Min. -80°C</i>
Each additional VT point below RT	30	40	<i>Min. -80°C</i>
Homo/Hetero-nuclear 2D			
<sup>13</sup> C-APT, <sup>31</sup> P, <sup>19</sup> F	20	30	6
1D and 2D-NOE Techniques			
	30	40	7
Sample disposal			
	30	40	8
Archiving on CD or DVD			
	30	40	9
Other Charges:			
NMR Training (fee/hr)			
	130	170	
NMR Operator (fee/hr)			
	130	170	10
Spectrometer Time (NMR Time/hr)			
	50	75	11

A Purchase Order (PO) or Indent must be submitted with the sample.

## Comments and Notes

- Included in Charges:** NMR tube+cap, standard (*see note 2 below*) NMR solvents, routine sample preparation, optimization of spectrometer parameters and shimming, recording of proton  $^1\text{H}$ -1D spectrum, plotting of spectrum and a "reasonable" number of spectral expansions, peak picking and integrations.
- NOT included** in base price: Spectral interpretation, literature searches (hourly rate applies to both), archiving data, disposal of the sample (if not picked up by customer), or faxing.
  - FAX:** \$5 for 1 to 5 pages, \$1 for each additional page.
- Standard Solvents:**  $\text{CDCl}_3$ , Acetic Acid- $\text{D}_4$ , Acetone- $\text{D}_6$ , Acetonitrile- $\text{D}_3$ , Benzene- $\text{D}_6$ , Toluene- $\text{D}_8$ , Methanol- $\text{D}_4$  (*i.e.*  $\text{CD}_3\text{OD}$ ),  $\text{D}_2\text{O}$  (99.9% or 10% in  $\text{H}_2\text{O}$ ),  $\text{DMSO-}\text{D}_6$ .
  - Nonstandard Solvents** Available with Extra Charges: "max"  $\text{D}_2\text{O}$  (99.99%),  $\text{CD}_2\text{Cl}_2$ ,  $\text{CD}_3\text{OH}$ , Cyclohexane- $\text{D}_{12}$ , Dioxane- $\text{D}_8$ , THF- $\text{D}_8$ .
  - For solvents not listed here please inquire ahead of time for availability and costs.
- An additional \$40 (\$30 academic) is charged for materials that require extensive sample preparation time due to solubility problems, *e.g.* very high viscosity, grinding, extensive heating, *etc.*
- NMR Sample Data only** – Users requesting NMR data only service will be asked to provide the sample dissolved in the appropriate solvent already in the NMR tube with cap. Sample(s) should be "ready to go" at time of submission. **No spectral processing, plotting, analysis, or interpretation will be provided. NMR digital data will be provided "as-is"** (*i.e.* User will need to have a USB thumb drive and access to appropriate software for processing and display).
  - Any subsequent request for plotting, integration, peak picking, or interpretation of the data will be charged at full operator fess of \$130/hr.
- Charge is for each of the following 2D experiments: COSY, TOCSY, HSQC, HMQC, HMBC.
- For Selective-1D NOE experiments, the charge is per irradiation or selective excitation point.
- Charged if samples are not picked up together with spectra.
- Price per CD/DVD irrespective of data size. Without explicitly requesting archiving of the data, there is no guaranteed time for the data to remain available.
- The hourly rate is charged for projects and samples that require much more operator time than normal. Hourly charges apply also to spectral interpretation, literature searches, and if developmental work on a spectrometer is required (*e.g.* a new special technique).
- Charged if customer operates a spectrometer without assistance by the NMR Service Staff other than a short introduction. Minimum charge is one hour. This option is only available if the proposed operator has past training and certification.