

GUIDELINE FOR NMR SAMPLE SUBMISSION

NMR, which stands for Nuclear Magnetic Resonance, is a spectroscopic technique that utilizes the magnetic properties of atomic nuclei to analyse molecular structure.

NMR Sample Requirements:

- 1D Standard Analysis: 5-7 mg
- 1D Standard ^{13}C Analysis: 25-30 mg
- 2D Standard Analysis: 10-25 mg
- NMR samples must be received in either a sealed vial or sealed Eppendorf tube only.

NMR Analysis Time:

- Analysis results usually within 5-7 working days of sample receipt in NMR lab.

NMR Results:

- Standard PDF Plots with peak list and integration
- Raw data available upon request

NMR Experiments & Solvents:

Experiments	^1H , ^{19}F , ^{31}P , ^{13}C (1D)	HSQC, HMBC, COSY, NOESY, TOCSY (2D)	Other X-Nuclei (On Special Request)
Solvents	Chloroform-d	Chloroform-d	Chloroform-d
	Methanol-d4	Methanol-d4	Methanol-d4
	Acetone-d6	Acetone-d6	Acetone-d6
	DMSO-d6	DMSO-d6	DMSO-d6
	Deuterium Oxide -D2O	Deuterium Oxide - D2O	Deuterium Oxide - D2O
Scan Range	50-1200	50-1200	50-1200

NMR Sample Analysis Charges For 500 MHz Facility					
Sl. No.	Experiment	Charges in INR (₹)			Remarks
		Academia	Institutions	Industry	
1	^1H , ^{19}F , ^{31}P	400	1200	2000	Per Sample / Half an hour
2	^{13}C (512 scans)	400	1200	2000	Per Sample / Half an hour
3	DEPT-90	400	1200	2000	Per Sample / Half an hour
4	DEPT-135	400	1200	2000	Per Sample / Half an hour
5	COSY	800	2400	4000	Per Sample/hour
6	HSQC	800	2400	4000	Per Sample/hour
7	HMBC	800	2400	4000	Per Sample/hour
8	TOCSY	800	2400	4000	Per Sample /hour
9	NOESY	2400	7200	12000	Per Sample / 3 hours
10	Other X-Nuclei (e.g. ^{15}N , ^{119}Sn , ^{23}Na , ^{51}V etc.)	1000	3000	5000	Per Sample / Half an hour
	Please contact at saif_cdri@cdri.res.in				

Notes:

1. The charges mentioned are applicable only for solution-state NMR experiments.
2. Additional charges will apply for extra experiments or scans beyond those listed, based on specific requirements.
3. For 1D NMR of other X-nuclei or advanced experiments not listed, please contact the Head/Facility in-Charge.
4. The prices mentioned are exclusive of GST. An additional 18% GST will be applicable as per the Government rules.
5. The listed charges include analysis using chloroform-d (CDCl_3) and deuterium oxide (D_2O) solvents only.

An additional charge of ₹250 will apply for the use of other deuterated solvents such as dimethyl sulfoxide- d_6 (DMSO-d_6), methanol- d_4 (CD_3OD), or Acetone- d_6 .