



## CHEMISTRY RESEARCH LABORATORY

## NMR SERVICE

Carousel #:

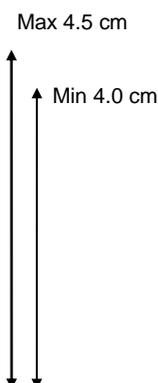
Instr/hours:

Completed:

Name: Status: Pt II D.Phil Post Doc Phone: CRL Lab:  
Supervisor: [Pt II's only] Supervisor's Name:<sup>1</sup> & Signature:  
Submission Number:<sup>2</sup> Project Code/ Charge Account:<sup>3</sup> Submission Date:

Nucleus: <sup>1</sup>H, <sup>13</sup>C, <sup>19</sup>F, <sup>31</sup>P Other: Sample @:<sup>4</sup> Rack Fridge Request

Structure: Toxicity:<sup>5</sup> Solution Depths:<sup>9</sup>



Nature of problem:<sup>6</sup>

Mass supplied:<sup>7</sup> Solvent:<sup>8</sup> Return spectrum?:<sup>10</sup>

Referencing: <sup>1</sup>H and <sup>13</sup>C spectra are referenced externally to TMS in CDCl<sub>3</sub>. <sup>19</sup>F spectra and <sup>31</sup>P spectra are referenced externally to CFC<sub>3</sub> in CDCl<sub>3</sub> and to phosphoric acid in D<sub>2</sub>O respectively. Indicate if you have added an internal reference.

- 1) Part II students must have their submission forms checked, **named** and **signed by their laboratory supervisor** before submission.
- 2) You should quote the number shown in the sample submission entry computer.
- 3) This is what you would use for iProcurement purchases. Seek advice from the Finance team if you do not know this.
- 4) Indicate where your sample can be found. If 'request' please arrange instrument time with the NMR staff immediately.
- 5) Give ANY details you may know that relate to possible hazards associated with handling of the sample (such as in the case of sample spillage or tube breakages). Eg toxic, carcinogen etc. If this is uncertain, enter UNKNOWN.
- 6) Indicate the expected presence of unusual shifts. Describe briefly any particular problem you wish to address (this will help us choose the most appropriate experiment(s) for the problem). **All experiments requested must be listed on this form.**
- 7) <sup>1</sup>H: 1-10 mg for the 500; <sup>13</sup>C: 10+ mg for the 500 (ca. 50+ mg should be run on the 200 or 400); <sup>19</sup>F: 1-10mg; <sup>31</sup>P: 10 mg. Please ask for others.
- 8) For routine analysis, all samples should be supplied in 5 mm high-quality tubes (Wilmad 507-PP, Norell 507-HP or New Era MP5 at least). Cracked, scratched or broken tubes will not be accepted.
- 9) The maximum solvent depth for 5 mm tubes should be 4.5 cm (600µl), the minimum is 4.0 cm (500µl). Note that the automated spectrometers also require a sample depth of 4.0 - 4.5 cm. Samples with depths outside this range may be rejected.
- 10) Tick here if you want your submitted reference 200/400 MHz spectrum back, otherwise it will be recycled.