

**CD Sample Analysis Requisition Form**[ Please go through the information's & instructions before filling up the form & put a tick  in the appropriate box. ]**Available Measurement Modes**

- Basic Spectra Measurement:** This program measures the changes in the sample signal intensity while scanning the wavelength.
- Variable Temp Measurement:** This program monitors CD data at a single wavelength as a function of temperature. Up to 5 wavelengths can be selected to monitor the CD signal. Includes the Variable Temp. & Temp. Interval Measurement programs.
- Temp Interval Scan Measurement:** This program measures CD Spectra at specified temperatures. Four wavelengths (within the previously specified wavelength range) can be selected to monitor the temperature dependence of the sample i.e.; it obtains the CD Spectra while changing the temperature in stages and obtaining temperature interval data.
- Temp / Wavelength Scan Measurement:** This program describes the measurement of the CD spectrum at specific temperatures while also monitoring a specific wavelength at varying temperatures to obtain a melting profile.
- Time Course Measurement:** This program measures the temporal changes in the sample signal intensity at a fixed wavelength.
- Interval Scan Measurement:** This program describes the features for measuring the temporal changes to CD spectra of a sample to create interval data i.e.; temporal changes to the photometric value of a sample can be monitored at specified wavelengths. Up to four monitoring wavelengths can be specified. Data can be displayed using 2-D Spectrum, 3-D Spectra, Contour and Colour view in the Interval Data Analysis program.

Available Cuvette's Size	Path Length	Volume	Path Width
	1 / 2 / 5 / 10 mm	0.35 / 0.70 / 1.70 / 3.50 ml	10 mm

**User's Profile**

User's Name: \_\_\_\_\_ EC / Registration # / Roll #: \_\_\_\_\_  
 Supervisor's Name: \_\_\_\_\_ Department / Centre / School: \_\_\_\_\_  
 e-mail ID: \_\_\_\_\_ @ \_\_\_\_\_ Contact No.: \_\_\_\_\_

**Preferred Measurement Mode**

Basic Spectra Measurement	<input type="checkbox"/>	Variable Temp Measurement	<input type="checkbox"/>
Temp Interval Scan Measurement	<input type="checkbox"/>	Temp / Wavelength Scan Measurement	<input type="checkbox"/>
Time Course Measurement	<input type="checkbox"/>	Interval Scan Measurement	<input type="checkbox"/>

**Preferred Analytical Parameters**

Wavelength (in nM) : \_\_\_\_\_  
 Cuvette Path Length (cm) : 0.1  0.2  0.5  1.0   
 Secondary Structure Analysis : YES  NO  {If YES then provide the following calculating parameters.}  
 Molecular Weight (in Da) : \_\_\_\_\_ No. of Amino Acid Residues : \_\_\_\_\_  
 Conc. for correction (in mg / ml) : \_\_\_\_\_ Mean Residual Molar Conc. (in mol / L) : \_\_\_\_\_

User's Sign.  
(with date)**For CD Spec Lab. Use Only**

Booking Ref # \_\_\_\_\_ Remarks (if any) \_\_\_\_\_  
 Date of Analysis \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Preferred Measurement Mode \_\_\_\_\_  
 No. of Samples Analyzed \_\_\_\_\_

Operator I/C

### **General Instructions**

- Users are advised to report at the CD Spectrometry Laboratory, Old Block, 1<sup>st</sup> floor, Room No.: FF-5, CRF at least 5-10 minutes before the slot allotted date and time.
- Users must bring the sample analysis requisition form and their own solutions, solvents, etc. as needed by them along with the samples to the CD lab. on the day. They are advised to bring sufficient quantity of Samples so that the cuvettes can be rinsed with the same for at least 3 times before final scan and also the Buffers for cleaning the Cuvette used at the beginning & at the end of each scan.
- Each and every sample / buffer scanned will be considered as one sample.
- Samples will not be taken up for analysis unless the sample submission form is filled up properly in all respect as mentioned.
- If any other specific parameters (apart from those given) are desired, then can be discussed personally with the CD Operator in-charge at the time of analysis.
- Only one out of six measurement modes is allowed per booking. But, for “Basic Spectra Measurement” **a slot allotted is equivalent to 1 hour**, whereas for rest modes of measurement **a slot allotted is equivalent to 3 hours**.
- **External users** would have to pay the analysis charges in advance through ECS (Credit Clearing) facility only. The Bank details for e-payment is as mentioned in the External Booking platform. Users have to submit the hardcopy of the Transaction made displaying the UTR No. at the lab. without failing in order to generate the Invoice.

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