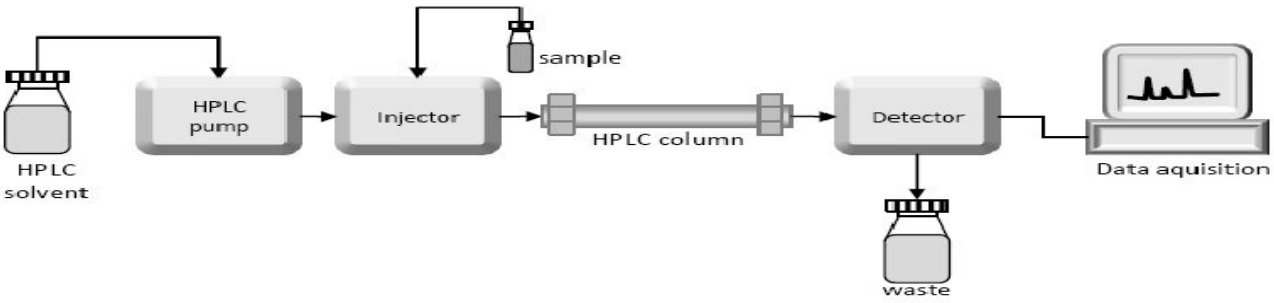
High Performance Liquid Chromatography (HPLC)

Instrument Details:

1. Make: Shimadzu
2. Model: Prominence-*i* LC-2030 3D
3. Specification: equipped with UV-VIS and Fluorescence detector.

Working Principle:



High Performance Liquid Chromotagraphy (HPLC) is an analytical technique used for the separation of compounds soluble in a particular solvent.

Applications:

1. Qualitative Analysis
2. Amino Acid Analysis
3. Molecular weight estimation

User Instructions:

1. Sample Submission:

a. Mobile phase Solvent for the run should be mentioned or solubility of compound in solvent should be informed prior.

b. The operating conditions should be mentioned along with the sample. Number of runs for the sample should be given.

c. At present C18, SAX, SCX HILIC columns are available. You can submit the column of your interest for separation.

d. Source of the sample should be informed. User should ensure that there is no toxic sample being submitted. Samples should not be toxic, hazardous or radioactive.

2. Results:

1. User should provide contact details to collect the data after the sample analysis is complete.
2. The experimental data provided is only for research / development purposes. These cannot be used as certificates in legal disputes.
3. Samples will not be analyzed till payment is received.

Basic charges:

Type of Analysis	Pricing academic	Industry	Sample volume	Sample Type
Amino acid Analysis	Rs 944 per run	Rs 1416 per run	300 ul	Protein,Spent media, Body fluids
Reverse phase separation	Rs 212 per run	Rs 472 per run	0.2mg/ul	Protein,Peptide, small molecule
Size exclusion	Rs 177 per run	Rs 354 per run	1mg/ml	Protein sample
Ion Exchange SAX(Anion)	Rs 472 per run	Rs 944 per sample		
Ion Exchange SCX	Rs 708 per run	Rs 1180 per run		
HPLC-HILIC	Rs 826 per run	Rs 1652 per run		

Payment:

External Users: Information

1. Academic Institutions:

User can come personally or send a letter from the Guide/HOD on the Institution's Original Letter Head along with the Registration Form and Demand draft. The letter must clearly indicate whether the samples are for Research or Consultancy purposes. The letter should be addressed to Mr. Vinod Kumar Mishra Staff Scientist, Head, Sophisticated Equipment Facility(SEF) Centre For DNA Fingerprinting and Diagnostics(CDFD) Hyderabad Email- sefcdfd@cdfd.org.in, vkmishra@cdfd.org.in

2. Industry& Non-Government Agencies:

User can come personally or send a letter signed by an authorized signatory of their Institution on Original Letter Head along with the Registration Form and Demand draft. The letter should be addressed to Mr. Vinod Kumar Mishra Staff Scientist, Head, Sophisticated Equipment Facility(SEF) Centre For DNA Fingerprinting and Diagnostics(CDFD) Hyderabad Email- sefcdfd@cdfd.org.in, vkmishra@cdfd.org.in

Basic charges including GST* (as applicable)

*GST rate as on 1.8.2017

General instructions to the users:

Payment Mode: Payment should in the form of a Demand Draft (DD) drawn in favour of The DIRECTOR CDFD HYDERABAD.

Appointment: The users will be informed about their date and time-slot by email. If the day and timeslot is not suitable for you, an email request to sefcdfd@cdfd.org.in, vkmishra@cdfd.org.in should be sent immediately for an alternate slot.

CENTER FOR DNA FINGERPRINTING AND DIAGNOSTICS

SOPHISTICATED EQUIPMENT FACILITY

UPPAL, HYDERABAD

HPLC –REQUISITION FORM

<table>
<tr><td>NAME</td><td colspan="2"></td><td>DATE :</td></tr>
<tr><td>GROUP / SUPERVISOR</td><td colspan="3"></td></tr>
<tr><td>INSTITUTION</td><td colspan="3">a) CDFD [ ] b) Academic [ ] c) Industry [ ]</td></tr>
<tr><td>NO.OF. SAMPLES</td><td colspan="3"></td></tr>
<tr><td>COLUMN</td><td colspan="3">a) RP [ ] b) SE [ ] c) IE [anion / cation] d) Hydrophobic [ ]</td></tr>
<tr><td rowspan="4">SAMPLE INFORMATION</td><td colspan="2">a) Conc.:</td><td>b) Molecular weight:</td></tr>
<tr><td colspan="2">c) Solubility:</td><td>d) Column Temp:</td></tr>
<tr><td colspan="2">e) Buffer :</td><td>f) Source of the sample:</td></tr>
<tr><td colspan="3"></td></tr>
<tr><td colspan="4">g) Method:</td></tr>
<tr><td>DECLARATION</td><td colspan="3">This is to certify that these samples do not contain Radioactive material
Signature</td></tr>
<tr><td>E-mail / PHONE</td><td colspan="3"></td></tr>
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This is to submit that Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party.

Signature of Student **Signature of the Group Head**