GC-MS/MS User Charges

1. GC-MS/MS (Triple Quadrupole- TQ8050). External users must pay extra 18% GST

BRIC-NIPGR/BRIC-AI	Academic, Research Institutions and Start-ups	Private Organizations	Important user information
1. GC-MS (Scan Mode): **1.1**) Untargeted - 1000 INR per sample	**1.1.1**) Untargeted -2000 INR per sample	**1.1.2**) Untargeted - 4000 INR per sample	Output to user of GC-MS = peak separation profile + RT + Area
1.2) Targeted (Scan mode/ relative quantification)- 1000 INR per sample	**1.2.1**) Targeted (Scanmode/ relative quantification)- 2000 INR per sample	**1.2.2**) Targeted (Scanmode/ relative quantification)- 4000 INR per sample	Relative quantification based on external standard
GC-TQ-MS/MS (MRM Mode): **1.3**) Targeted - 2000 INR per sample + 100 INR per precursor ion MS/MS (i.e. per metabolite)	**GC-TQ-MS/MS (MRM Mode):** **1.3.1**)Targeted - 5000 INR per sample + 200 INR MS/MS analysis (perprecursor ion)	**GC-TQ-MS/MS (MRM Mode):** **1.3.2**) Targeted – 10000 INR per sample + 1000 INR MS/MS analysis (perprecursor ion)	Output to user of GC-MS/MS = Absolute quantification based on authentic standards, precursor ion and reference ion

LC-MS/MS User Charges

2. UHPLC-MS/MS (QTRAP 6500 $^{+}$). External users must pay extra 18% GST

BRIC-NIPGR/BRIC-AI	Academic, Research Institutions and Start-ups	Private Organizations	Important user information
2.Phytohormone estimation:			
2.1) Defense phytohormones (JA, JA-Ile, *cis*-OPDA, SA, ABA):	**2.1.1)** Defense phytohormones (JA, JA-Ile, *cis*-OPDA, SA, ABA):	**2.1.2)** Defense phytohormones (JA, JA-Ile, *cis*-OPDA, SA, ABA):	Uses a mix of labelled internal standard for each sample provided by the facility
2000 INR per sample + 100 INR per precursor ionMS/MS (i.e. per phytohormone)	4000 INR per sample + 100 INR per precursor ion MS/MS	10000 INR per sample +500 INR per precursor ion MS/MS	
Total charge for all five defense phytohormones per sample: 2500 INR	Total charge for five defense phytohormones per sample: 4500 INR	Total charge for five defense phytohormonesper sample: 12500 INR	
2.2) Growth phytohormones [IAA(Auxin), *trans*-zeatin(Cytokinin)]	**2.2.1**) Growth phytohormones [IAA (Auxin), *trans*-zeatin (Cytokinin)]	**2.2.2**) Growth phytohormones [IAA (Auxin), *trans*-zeatin (Cytokinin)]	Uses a mix of labelled internal standard for each sample provided by the facility
2300 INR per sample + 100 INR per precursor ionMS/MS (i.e. per phytohormone)	4600 INR per sample + 200 INR per precursor ion.MS/MS (i.e. per phytohormone)	10000 INR per sample +500 INR per precursor ion MS/MS (i.e. per phytohormone)	
Total charge for two growth phytohormonesper sample: 2500 INR .	Total charge for two growth phytohormones per sample: 5000 INR	Total charge for two growth phytohormonesper sample: 11000 INR	SPE column for sample preparation will be provided
2.3) Gibberilins (GA_1, GA3, GA4, GA7, GA8)	**2.3.1**) Gibberilins (GA_1, GA3, GA4, GA7, GA8)	**2.3.2)** Gibberilins (GA_1, GA3, GA4, GA7, GA8)	Uses a mix of labelledinternal standard for each sample provided by the facility
2000 INR per sample + 100 INR per precursor ionMS/MS (i.e. per GA)	4000 INR per sample + 100 INR per precursor ionMS/MS (i.e. per GA)	10000 INR per sample + 500 INR per precursor ionMS/MS (i.e. per GA)	
Total charge for five GAper sample: 2500 INR	Total charge for five GAper sample: 4500 INR	Total charge for five GAper sample: 12500 INR	SPE column for sample

			preparation will be provided
2.4) Amino acids 2000 INR/sample (UPLC-MS/MS charge)	**2.4.1**) Amino acids 5000 INR/sample (UHPLC-MS	**2.4.2**) Amino acids 10000 INR/sample	Uses a mix of labelled internal standard for each sample provided by the facility. Amino Acids In Internal standard are: Ala, Ser, Pro, Thr, Ile, Asp, Glu, Met, His, phe, Arg, Tyr, Trp, Asn, Gln, Lys.
2.5) Flavonoids (based on external calibration curve) 600 INR/sample	**2.5.1**). Flavonoids 1500 INR/sample	**2.5.2**) Flavonoids 3000 INR/sample	External calibration curve made for following Flavanoids: Naringenin, Quercetin Rutin, Myricetin Kaempferol Epicatechin gallate Epigallocatechin Catechin, Cyanidin Delphinidin, Pelargonidin Petunidin, Peonidin Malvidin

2.6) Other targeted metabolite quantitation 2000 INR/sample (UPLC-MS/MS charge) + 100 INR per precursor ion MS/MS (i.e. per metabolite) Total charge per metabolite per sample:2100 INR	**2.6.1**) Other targeted metabolite quantitation 5000 INR/sample (UHPLC-MS/MS charge) + 200 INR per precursor ion Total charge per metaboliteper sample: 5200 INR • *External users can send students to do sample preparation in the facility* • *External users can also send lyophilized powder of plant tissue as follows:* *GC-MS-UT: 25 mg* *LC-MS-DH: 25 mg* *LC-MS-GH: 35 mg* *LC-MS-GA: 35 mg* *LC-MS-AA: 25 mg* *LC-MS-Flav: 25 mg* ***2.7.1**) Sample preparation charge: 2000 INR per sample for any analysis*	**2.6.2**) Other targeted metabolite quantitation 10000 INR/sample (UHPLC-MS charge) +1000 INR per precursor ion Total charge per metabolite per sample:11000 INR *2.7.2) Sample preparation charge: 4000 INR per sample for any analysis*	The users must have a Published method, column and standards.

ICP-MS User Charges

3. ICP-MS (Agilent 7800). External users must pay extra 18% GST

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3.1) 1000 per liquid sample for 5elements +Rs. 10 per extra element	**3.1.1**) 2000 per liquid sample for 5 elements + Rs. 50 per extra element	**3.1.2**) 4000 per liquid sample for5 elements + Rs. 100 per extra element
3.2) 1500 per solid sample for 5elements + Rs. 10 per extra element	**3.2.1**) 2500 per solid sample for 5 elements + Rs. 50 per extraelement	**3.2.2**) 4000 per solid sample for 5 elements + Rs. 100 per extra element

Note: Elements that can be measured: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, K, Li, Mg, Mn,Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, P, Zn.

HPTLC User Charges

4. HPTLC (CAMAG). External users must pay extra 18% GST

BRIC-NIPGR/BRIC-AI	Academic, Research Institutions and Start-ups	Private Organizations
4.1) 1000/sample ***Notes:*** *specific standards and method should be provided bythe user*	**4.1.1)** 2000/sample ***Notes:*** *specific standards and method should be provided bythe user*	**4.1.2)** 4000/sample ***Notes:*** *specific standards and method should be provided bythe user*

NOTES

- The users are requested to contact the metabolome facility to get quotation and in-case of queries regarding price, slot and analysis to be used. Email of metabolomics facility: *metabolome@nipgr.ac.in.*
- **Internal Users**: The samples will be accepted only after the indents are processed by NIPGR. The users may give indent to metabolome staff (lab-008) and the indents after signature from Metabolomics facility in-charge are sent to Administration. The indents are further processed as normal consumable indents. Once the indents are approved, the user can give the samples to the facility and requested to take their analyzed samples back, once the data has been received from the facility.

- **External users**: Ask the facility for quote, make the payment in advance (online transfer) to the Institute, send details of purchase order and filled indent form to us. The dates for analysis will be given after this procedure is completed. Only after indents are approved can the user start sample preparation or send samples
- Samples submitted in person or via post, without proper communication and prior approval by the competent authority, will not be entertained. Payments processed regarding the same, without prior approval of the competent authority, will not be the direct responsibility of Metabolome facility, NIPGR.
- Sample list in Excel sheet must be provided to the facility with weight of samples and the sample tubes must have similar codes for ease of handling (Lab name- day and month- sample number. Eg. JV-26-11-01).
- Average processing time after sample submission is dependent on sample queue and will be minimum 3 weeks for metabolites in price list, for other user specific metabolites with a known method it is 6-8 weeks. The sample processing time starts after the indentis approved by NIPGR and due verification of submitted samples.
- User will be liable for any damage of the equipment's by improper handling during sample preparation and will be liable for compensation for any major damage (i.e. which will hamper equipment operation).
- All the samples and standards must be prepared by using MS grade solvents for good quality result.
- After analysis the raw data will be provided without any statistical processing.
- Equipment's required for sample preparation will be provided by the facility. Equipment's for sample preparation will be handled by the user with the guidance of authorized Operator without any extra charges.

- Facility will not be responsible for data processing/experimental result. The soft copy files of your sample run has to be collected from facility within 1 month of analysis and data will not be stored by the facility beyond this.
- Kindly acknowledge the metabolomics facility in your publications.
- The payment will be done in advance in the following bank detail for external users.

Accounts Holder's Name: DIRECTOR, NIPGR

Bank Name and its address: State Bank of India, Jawaharlal Nehru University, New DelhiAccount Number (Saving account): 10596550290

IFSC code: SBIN0001624

Email of the Beneficiary: finance@nipgr.ac.in.