



**PUSAT PENGURUSAN MAKMAL
UNIVERSITI (PPMU)**

| | |
|-------------------|------------|
| Form Num. | UIRL/F/138 |
| Version | 1/2023 |
| Effective Date | 01/02/2023 |
| Equipment | HPLC |
| Sample Serial No. | UIRL/ |

**ANALYTICAL CHEMISTRY & LIQUID CHROMATOGRAPHY LABORATORY
SAMPLE SUBMISSION FORM (INDUSTRY)**

General Rules and Requirements:

- All information provided should be true
- Booking will be notified/updated by email
- Booking procedure
 - Submit the complete application form to UIRL Sample Acceptance Counter
 - Fast Lane is offered to non-UTM customers with an additional 50% charge from the normal price**
- Sample Condition & Preparation
 - PPMU has the right to cancel any analysis if the sample is suspected to have a high risk to the safety of the operator or can cause damage to the instrument during the analysis. The cost of damages will be borne by the customer.**
 - The remaining samples will be disposed of within a month after the analysis is completed.**
 - Only samples that were ready to be analyzed were accepted by the lab.
- All enquiries regarding HPLC should be forwarded to the (Science Officer, Mr. Ahmad Muslehuddin Sarun, email: a.muslehuddin@utm.my, tel: 07-5557775 or Assistant Engineer, Mr. Amirul Amin Khir Anuar, email: amirulamin@utm.my, tel: 07-5557720) or visit our website at ppmu.utm.my

| 1. APPLICANT'S PERSONAL PARTICULARS | | | | | | | |
|--|--|-------|--------------------|--|-------------------|---------|-----------|
| Name of Applicant | | | | | | | |
| Hand Phone No | | | | | | | |
| Email | | | | | | | |
| Department/Division | | | | | | | |
| Signature & Official Stamp | | | | | | | |
| 2. COMPANY DETAILS | | | | | | | |
| Name | | | | | | | |
| Registration No. | | | | | | | |
| Address | | | | | | | |
| Telephone No. | | | | | | | |
| Email | | | | | | | |
| Mode of Payment | | Cash | | EFT | | Invoice | Fast Lane |
| 3. SAMPLE INFORMATION | | | | | | | |
| Total No. of Sample | | | | | | | |
| Name of Sample/s | | | | | | | |
| Sample Properties (please tick (v)) | | Toxic | | Carcinogenic | | Normal | |
| Sample Purity | | | | | | | |
| Detected Compounds | | | | | | | |
| 4. ANALYSIS INFORMATION (please attach the copy of referred journal) | | | | | | | |
| Type of Analysis (please tick (v)) | HPLC-PDA-FLUORESCENCE (AGILENT) | | | HPLC-PDA-FLUORESCENCE (WATERS) | | | |
| | HPLC-QDa MASS DETECTOR | | | | | | |
| Type of Column Available | Waters, XBridge BEH C18, 4.6 x 250mm, 5 micron | | | Waters, XBridge Amide BEH, 4.6 x 250mm, 5 micron | | | |
| | Waters, XBridge Phenyl BEH, 4.6 x 250mm, 5 micron | | | ZORBAX Eclipse Plus C18, Rapid Resolution 4.6 x 100mm 3.5 micron | | | |
| | Phenomenex Gemini® 5µm NX-C18 LC column 250 x 4.6 mm | | | | | | |
| Detector (please tick (v)) | Photodiode Array (PDA) | | Fluorescence (FLD) | | QDa Mass Detector | | |
| 5. PHOTODIODE ARRAY & FLUORESCENCE INFORMATION | | | | | | | |



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SAMPLE SUBMISSION FORM (INDUSTRY)**

| | | | | | | | | |
|---------------------------------------|-------------------------|-------|-------|----------------------------------|----------|---------------|--------------------|--|
| Elution (please tick (v)) | Isocratic | | | | Gradient | | | |
| Injection Volume (µL) | | | | | | | | |
| Flow Rate (mL/min) | | | | | | | | |
| Stoptime (min) | | | | | | | | |
| Postrun (min) | | | | | | | | |
| Column Temperature (°C) | | | | | | | | |
| Mobile Phase or Premix (If Isocratic) | A : | | % | C : | | % | | |
| | B : | | % | D : | | % | | |
| Mobile Phase Timetable (If Gradient) | Time (min) | A (%) | B (%) | C (%) | D (%) | Flow (mL/min) | Max Pressure (bar) | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Signal & Band width DAD (nm) | Wavelength (Band width) | | | Reference wavelength(Band width) | | | | |
| Signal FLD (nm) | Excitation | | | Emission | | | | |
| Spectrum (if required) | Wavelength (nm) | | | Step (nm) | | | | |

6. QDa INFORMATION

| | | | | | | | |
|------------------------------|------------------------------|----------------|--|----|----------------------|--|--|
| Isocratic Solvent Management | Yes | | | No | | | |
| | Mobile Phase | | | | Flow rate(mL/min) | | |
| MS Conditions | Ionization Mode | ESI+ | | | ESI- | | |
| | Probe Temperature (°C) | | | | | | |
| | Capillary Voltage (kV) | Positive (+ve) | | | Negative (-ve) | | |
| | Cone Voltage (V) | Positive (+ve) | | | Negative (-ve) | | |
| | MS Scan Range (Da) | | | | | | |
| | Sampling Rate (point/second) | | | | | | |
| | Acquisition (m/z centroid) | | | | | | |
| | SIR Channel | Mass (Da) | | | Polarity (+ve)/(-ve) | | |
| | Compound A | | | | | | |
| Compound B | | | | | | | |