



## Advanced Mass Spectrometry Laboratory

Doping Control Centre  
Universiti Sains Malaysia (USM)

Specialises in analysis and validation of targeted compounds, drugs, contaminants and adulterants in environmental samples, aquaculture products including products and materials for the import/export industry.

- **Crop/livestock/breeding/aquaculture:** Analysis of drug residue and contaminants in aquaculture products.
- **Waste analysis/treatment:** Analysis of contaminant in environmental samples.
- **Bioprocessing:** Analysis of drug residue in bioprocessed food.

### Services offered by the Advanced Mass Spectrometry Laboratory:

- **Medicinal chemistry:** Analysis of target residue in herbal preparation.
- **Phytochemistry:** Analysis of phytochemistry compound in biological samples.
- **Drug target screening:** Finger print drug analysis in biological samples.
- **Chemical quantification:** Quantification of drug residue in biological, food and agricultural samples.
- **Clinical pharmacology:** Identification of toxic compound and efficacy study of drug delivery.
- **Biomarker identification/characterization/selection:** Structural characterization.

### Equipment / Facilities Available:

- High Resolution Gas Chromatograph Mass Spectrometer (HR-GC/MS)
- High Resolution Gas Chromatograph Mass Spectrometer (HR-GC/MS)
- High Resolution Magnetic Sector Mass Spectrometer (HRMS-MS)
- Gas Chromatography Mass Spectrometer (GC/MS)
- Triple Quadrupole Liquid Chromatography Mass Spectrometer (LC/MS)

### CONTACT PERSON

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