

FOR MORE INFORMATION



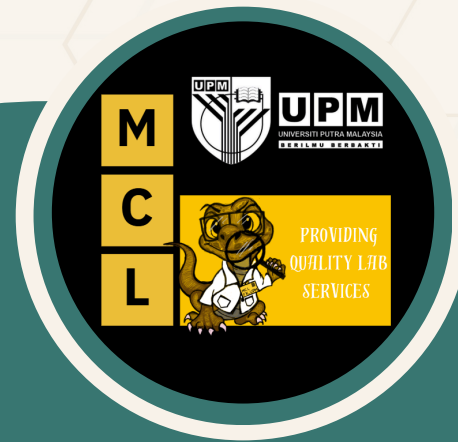
03-97691595

kkamcl1595@upm.edu.my

Payment Method

- ✓ Internal vot transfer (for UPM only)
 - ✓ Cheque/Bank Draft/Postal Order payable to Bursa UPM
 - ✓ Cash at UPM Bursa Counter 3
 - ✓ Payment Gateway
 - ✓ Local order (LO)/Purchase Order (PO)
- UNIVERSITI PUTRA MALAYSIA SERDANG
Pejabat Bursa, Aras 2,
Bangunan Canselori Putra,
Universiti Putra Malaysia,
43400 UPM Serdang, Selangor.

We offer analytical
services for various
industries.



Material Characterization Laboratory, MCL

LABORATORY TESTING AND SERVICES



FAKULTI
KEJURUTERAAN
FACULTY OF ENGINEERING
فاكولتي كجوروتراان

CHROMATOGRAPHY TEST

Agilent Gas chromatography with
Flame Ionization Detection
(GC)-FID RM130*

Agilent Gas Chromatography with
Thermal Conductivity Detector
(GC)-TCD RM80*

Shimadzu Gas Chromatography
Mass Spectrometry (GC-MS) RM380*

Shimadzu High Performance Liquid
Chromatography (HPLC) UV
Detector RM105*

Agilent High Performance Liquid
Chromatography (HPLC) RI/ELSD
Detector RM100*

Jasco High Performance Liquid
Chromatography (HPLC) RI-PDA
Detector RM100*

* More than one sample contact lab.

ELEMENTAL TEST

LECO CHNS Analyzer CHN S RM260 RM250

SPECTROSCOPY TEST

Thermo Scientific Flame Atomic
Absorption Spectrophotometer (AAS) RM80**/element

Perkin Elmer Inductively Coupled
Plasma with Optical Emission
Spectroscopy (ICP-OES) RM190

Perkin Elmer Fourier Transform
InfraRed Spectroscopy (FTIR) RM130

Shimadzu UV-Vis Spectrophotometer
(UV-Vis) RM50

** per sample basis.

THERMAL TEST

Mettler Toledo Differential Scanning
Calorimetry (DSC) RM230

Mettler Toledo Thermogravimetric
Analyzer (TGA) RM230

ELECTRON MICROSCOPE TEST

Field Emission Scanning Electron
Microscopy (FESEM) RM500

Field Emission Scanning Electron
Microscopy with Energy Dispersive
X-ray Spectroscopy (FESEM-EDX) RM600

Field Emission Scanning Electron
Microscope with Integrated Raman
Laser Imaging System (FESEM-
Raman) Please consult
MCL for price.

PHYSICAL TEST

SURFACE ANALYZER
Micromeritics Brunauer-Emmett-
Teller (BET) Analyzer RM425

XRAY DIFFRACTION
Shimadzu Power X-Ray Diffraction
(XRD) RM400

VISCOSITY
Rotational Viscometer RM50

PARTICLE SIZE
Malvern Particle Size Analyzer (PSD) RM55