

UM USER



INFRA ANALYSIS LABORATORY
UNIVERSITY OF MALAYA

**SERVICE CHARGE FOR FACILITIES AVAILABLE FOR UM STUDENT & RESEARCHER
INSTITUTE OF RESEARCH MANAGEMENT & MONITORING**

NO	FACILITIES	TEST/SERVICES	Price (RM) (UM USER)				
			Package A	Package B	Per sample		
1	Nuclear Magnetic Resonance (600MHz)	- 1H & 13 C - 2D Analysis	2500.00 (Limit 300 hours)	300.00 (Limit 12 hours)	50.00 (Limit 1 hour)		
2	Sample Preparation	- Carbon/Gold Coating	10.00 /sample (Excluded aluminium stub)	30.00/sample (Included aluminium stub)			
		- Chemical treatment/ CPD	30.00 /sample (Excluded aluminium stub)	50.00/sample (Included aluminium stub)			
3	GCMS	- Compositional Test (Scan & SIM Mode using RTX-5 column)	Package A	Per Sample			
			500.00/year/30samples	50.00/Sample			
4	Confocal Laser Microscope	- Fluorescent Imaging	Package A	Per sample			
			500.00/year/10hours	60.00/hour			
		- Life cell imaging (time lapse)	100.00/hour/sample				
5	Field Emission Scanning Electron Microscope (FESEM)	- Imaging (Microstructure/nanostructure)	High/ Low Vacuum	ESEM/WetStem			
			180.00/sample (max 5 images)	250.00/sample (max 5 images)			
			Package A (FESEM)				
			1000.00/7samples (Terms & Conditions apply)	NA			
			Package B (FESEM+EDX)				
		230.00 /sample (FESEM : Terms & Conditions apply) EDX (max 3 spectrum / mapping/ linescan)	NA				
6	Energy Dispersive X-ray (EDX)	- Compositional	Elemental / Mapping				
			100.00/sample (max 3 spectrum / mapping/ linescan)				
7	Surface Area Analyzer (BET)	- Surface Area - Pore Volume - Pore Size Distribution	Mesopore – Accredited ISO MS/IEC 17025				
			Package A	Package B	Per sample		
			135.00/sample (≥ 20 samples)	120.00/sample (≥ 30 samples)	150.00/sample		
			Micropore				
			Package A	Package B	Per sample		
235.00/sample (≥ 20 samples)	220.00/sample (≥ 30 samples)	250.00/sample					
8	Differential Scanning Calorimeter (DSC)	- Heat Flow Analysis	Package A	Per sample			
		- Specific heat capacity (Cp)	1600.00 / year (20 samples)	100.00/sample (Solid)			
			2400.00 /year (20 samples)	150.00/sample (Liquid)			
9	Simultaneous Thermal Analyzer (STA) / Thermal Gravimetric Analyzer (TGA)	- Weight Loss - Melting Curves	Package A	Per sample			
			2400.00 /year (20 samples)	150.00/sample			
10	Dynamic Mechanical Analyzer (DMA)	- Tensile / Tension analysis - Single / dual cantilevel	1600.00/year (20 samples)	200.00/sample			

11	DNA Sequencer	- DNA Sequencing	Package A		Per Hour		
			Buy 10 hours (Free 1 hour)		100.00/hour		
12	Real Time PCR	- Quantitative PCR Application	Package A		Per Run		
			Buy 5 runs (Free 1 run)		30.00/run		
13	Particle Image Velocimetry (PIV)	- Vector & Velocity (2D & 3D analysis)	Package A		Per slot		
			2000.00 (20 days)		50.00/slot (Limit 4 hours)		
14	LCMS-QTOF	- Qualitative - Mass analyzer (MS & MS-MS)	Package A	Package B	Per Hour	C18 Column	
			1500.00/year (Limit 60 hours)	250.00/6 hour	50.00/hour	50.00/day	
15	UHPLC	- Qualitative	Package A	Package B	Per Hour	C18 Column	
			750.00/year (Limit 60 hours)	130.00/6 hour	25.00/hour	50.00/day	
16	Ellipsometer	- Change in polarization - Optical constant - Film thickness	Package A		Per sample		
			200.00 (20 samples)		25.00/sample (max 5 spot per sample)		
17	Rheometer	- Viscosity - Viscoelastic	Package A		Per sample		
			300.00 (10 samples)		50.00/sample		
18	Tensiometer	- Surface and interfacial tension - Powder wettability	Package A		Per sample		
			300.00 (10 samples)		50.00/sample		
19	-80°C Freezer	- Storage samples	Per Box	Per Compartment			
			(Small) HxWxL: 5x17 x17 cm	(Medium) HxWxL: 10x17 x17 cm	(Large) HxWxL: 15x17 x17 cm	HxWxL: 25x60 x60 cm	
			30.00 per month	40.00 per month	60.00 per month	200.00 per month	
20	Portable autoclave	-Sterilizing materials	Package A		Per hour		
			Buy 10 hours (Free 1 hour)		Rm5/hour		

*Please consult IPPP Science Officer at 603-7967 4619 or email lab_infra@um.edu.my for further details on charging rate.

Updated : 5/4/2022 -syida