

SCIENCE (RSPU LABS) - LIST OF TESTS

Chromatography

#	Technique	Equipment Name
1	Gas Chromatograph-Mass Spectrometer (GC-MS)	Thermo DFS
2	Direct Mass Spectrometer Analysis	Thermo DFS
3	Fast Atom Bombardment (FAB)	Thermo DFS
4	Liquid Injection Field Desorption Ionization (LIFDI)	Thermo DFS
5	Gas Chromatograph (GC)	Bruker 3900
6	Liquid Chromatograph-Mass Spectrometer (LC-MS)	Waters G2 S Q-TOF
7	Ultra Performance Liquid Chromatograph (UPLC)	Shimadzu
8	Fast Protein Liquid Chromatograph (FPLC)	BioRad
9	Preparative High Performance Liquid Chromatograph (Prep HPLC)	Shimadzu
10	Ion Chromatograph (IC)	Metrohm 850
11	Ion Chromatograph- Mass Spectrometer (IC-MS)	Metrohm 850

Vibrational Spectroscopy

Price is for 48 hours experiment. Please request quote for experiments which needs more time.

1	Fourier Transform - Nuclear Magnetic Resonance (NMR)- 1H	Burker Avance II 600
2	Fourier Transform - Nuclear Magnetic Resonance (NMR) -13C	Burker Avance II 600
3	Solid Nuclear Magnetic Resonance	Burker Avance II 600
4	2D Nuclear Magnetic Resonance	Burker Avance II 600
5	Triple Resonance*	Burker Avance II 600
6	Other Nuclei	Burker Avance II 600

7	Distortion less Enhancement by Polarization Transfer (DEPT)	Burker Avance II 600
8	Correlation spectroscopy (COSY)	Burker Avance II 600
9	Fourier Transform-Nuclear Magnetic Resonance (NMR) - ¹ H	Bruker DPX 400
10	Fourier Transform-Nuclear Magnetic Resonance (NMR)- ¹³ C	Bruker DPX 400
11	Fourier Transform-Infrared (FT-IR)	Jasco 6300
12	Fourier Transform-Infrared Microscope	Jasco 6300
13	Far Infrared	Jasco 6300
14	Near Infrared	Jasco 6300
15	Attenuated Total Reflectance (ATR)	Jasco 6300
Elemental Analysis		
1	Inductively Coupled Plasma - Mass Spectrometer (ICP-MS) *	Bruker 820 MS
2	Inductively Coupled Plasma (ICP) *	GBC-Quantima
3	Atomic Absorption Spectrophotometer (AAS) *	Perkin Elmer 900F
4	Microwave Plasma - Atomic Emission Spectrophotometer *	Agilent 4100
5	Carbon, Hydrogen, Nitrogen, Sulphur analyzer (CHNS)	Vario Micro Cube
6	X-Ray Fluorescence (XRF)- Disk	Bruker S8 Tiger
7	X-Ray Fluorescence- Pressed Pellet	Bruker S8 Tiger
X-Ray Photoelectron Spectroscopy and Diffractometry		
1	X-Ray Photoelectron Spectroscopy (XPS)	Escalab 250xi
2	X-Ray Photoelectron Spectroscopy with reduction	Escalab 250xi
3	Ultra Violet Photoelectron Spectroscopy (UPS)	Escalab 250xi
4	Ion Scattering Sepctroscopy (ISS)	Escalab 250xi

5	X-Ray Photoelectron Spectroscopy Chemical Imaging	Escalab 250xi
6	X-Ray Photoelectron Spectroscopy Depth Profile	Escalab 250xi
7	Single Crystal X-Ray Small Molecules	Rigaku Rapid II
8	Single Crystal X-Ray Small Molecules	Bruker X8 Prospector
9	Single Crystal X-Ray Molecules	Bruker X8 Prospector
10	Powder X-Ray Diffraction- Ambient (XRD)	Bruker XRD D8
11	X-Ray Diffraction-Non-Ambient	Bruker XRD D8
Spectroscopy		
1	Ultraviolet -Visible (UV-Vis)	Agilent Cary 5000
2	Reflectance	Agilent Cary 5000
3	Kinetics	Agilent Cary 5000
4	Luminescence	Jobin Yvon-Fluoromax 4
5	Lifetime - TCSPC	Jobin Yvon-Fluoromax 4
Thermal Analysis		
1	Thermo Mechanical Analyzer (TMA)	Shimadzu TMA-60
2	Thermo Gravimetric Analyzer (TGA)	Shimadzu DTG-60
3	Differential Thermal Analyzer (DTA)	Shimadzu DTG-60
4	Dynamic Mechanical Thermal Analyzer	TA Instruments DMTA Q800
5	Differential Scanning Calorimetry(DSC)	Netsch F1
Sorptometry		
1	Sorptometry - BET	Micromeritics ASAP 2020
2	Full Isotherm	Micromeritics ASAP 2020
3	Chemisorption	Micromeritics ASAP 2020

Water Analysis		
1	Chlorophyll *	Turner Trilogy
2	Nutrients in Water*	Nano color
Biotechnology Center		
1	Sequencing and Fragment analysis	3130xl Genetic Analyzer
2	Gene expression	7900HT Fast Real-Time PCR
3	Next Generation sequencing#	Solid 5500xl-W
4	Next Generation sequencing#	Ion torrent PGM
5	Gene Expression#	Affymetrix Microarray