

UAEU

جامعة الإمارات العربية المتحدة
United Arab Emirates University



MAIN INSTRUMENTS

Department of Chemistry

The following is a list of main instruments available in the Department of Chemistry:

No.	Name	Quantity
1.	Scanning electron Microscope-EDX Microanalysis Thermo Model Quttro-S	1
2.	Gas physisorption instrument Quantachrome -Autosorb	1
3.	Powder XRD (PXRD) Rigaku –Mini-flex	1
4.	Single-crystal XRD instrument Rigaku - XTALAB - Synergy	1
5.	Liquid-Solid 400 MHZ FT NMR Varian	1
6.	FT NMR 200 MHZ Varian	1
7.	Benchtop NMR 45 Hz picoSpin	1
8.	Inductively Coupled Plasma OES Varian 720 OES	1
9.	Circular Dichroism Spectropolarimeter JASCO – J815 CD	1
10.	HPLC with a Quaternary pump, DAD & Fluorescence Agilent	1
11.	LC MS 6310 Ion Trap Agilent	1
12.	LC MS Model 6420 Triple Quad LC-MS Agilent	1
13.	Spectrometer, Fast Reaction with Rapid Mixing System Biologic Model MOS-250	1
14.	Atomic Absorption Spectrophotometer SOLAAR Thermo Finnigan	2
15.	Thermal Gravimetric Analyzer Shimadzu-TGA 50 and Mettler- TGA2	2
16.	Differential Scanning Calorimeter (DSC) Shimadzu DSC 60 & DSC60+	2
17.	Ion Chromatography Dionex – ICS-2000	1
18.	Gel permeation chromatography (GPC) PL GPC 50 Plus Polymer Laboratory	1
19.	Gel permeation chromatography 1200 (GPC) Agilent	1
20.	C, H, N & S Elemental Analyzer LECO Model Truespec, Micro	1
21.	Near IR Spectrophotometer Shimadzu 3600	1
22.	Surface Plasmon Resonance Bio Navis (PSR)	1
23.	Capillary Electrophoresis Model J-1600 Agilent	1
24.	Fluorescence Spectrophotometer Varian – Agilent-Shimadzu	3
25.	FT-IR Spectrophotometer, with Microscope Thermo Nicolet 470	1

26.	FT-IR Spectrophotometer Thermo Nicolet 670,	1
27.	FT-IR Spectrophotometer Model IRAffinity-1 Shimadzu	2
28.	FT-IR Spectrophotometer Model IRPrestige-21 Shimadzu	1
29.	FT-IR Spectrophotometer Perkin Elmer	1
30.	Total Organic Carbon Analyzer GE	1
31.	Flame Photometer Thermo - Jenway	2
32.	Automatic Digital Polarimeter Model P3001 Kruss	2
33.	Gas Chromatography Varian Model CP3800	1
34.	Gel permeation chromatography (GPC) Agilent	1
35.	TriStar II Plus Automatic Physisorption Micromeritics	1
36.	Freeze-Dryer, Bench-top Telstar	2
37.	Balance Magnetic Susceptibility	1
38.	Ultra-centrifuge Sorvall RC-285	2
39.	Viscometer Brukefield	1
40.	Bio-analyzer Agilent Model 2100 Agilent	1
41.	Hidex Micro-plate reader	1
42.	UV - Micro-plate reader	1
43.	Densitometer Anton Paar	1
44.	Autoclave	2
45.	Sterile hood	3
46.	Multilabel reader PerkinElmer 2030	1
47.	LC-MSMS Shimadzu Model 8040	2
48.	LC-MSMS Shimadzu Model LC-MS 8060	1
49.	GC-MSMS Shimadzu Model TQ-8030	1
50.	LC-MS Micro mass ZQ Water	1
51.	UV/VIS spectrophotometer, Varian Cary 50	4
52.	UV/VIS spectrophotometer, Agilent Model Cary 60 , 100 & 300	3
53.	UV/VIS spectrophotometer Shimadzu 1900i,1800	19
54.	Wavelength Dispersive XRF Rigaku Primus IV	1
55.	Zetasizer Malvern Nano ZS	1

56.	GC- Shimadzu Model : GC-2010 -GC 2030	2
57.	Microwave Synthesizer CEM Discover	1
58.	High- Medium pressure Mercury photoreactor	1
59.	CHEMSORB-BET/TPD/TPR/TPO	1
60.	Solid-phase extraction system	1
61.	Auto titrator Metrohm	2
62.	. ELECTROSPINNER	2
63.	Edinburgh Life Spec II Spectrophotometer	1
64.	UV/VIS spectrophotometer Lambda 35 PerkinElmer	1
65.	Labconco Centrivap Concentrator -Gold Trap	2
66.	GC-MS Model 7000 Triple Quad Agilent	1
67.	Extractor Model 5 PE-DEX 4790 Horizon Technology	1
68.	Gloves Box Model m Braun Lab Star	1
69.	Pressure Reactor Model 4848 Parr Instrument	1
70.	GC-Trace MS Model EI 250 Finnigan	1
71.	Flame Photometer Jenway - Thermo	2
72.	Melting Point Electro thermal -Stuart	20