

Instrument Information Sheet

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High Pressure Liquid Chromatography (HPLC)

Instrument Specifications	<p>Agilent 1260 Infinity HPLC equipped with DAD and ELSD detectors Agilent 1200 HPLC equipped with DAD and RID detectors Agilent 1200 HPLC equipped with DAD and FLD detectors</p> <p>Anthocyanin Analysis Includes identification of peaks by comparison to standards and quantification of total anthocyanins as cyanidin-3-O-glucoside equivalents based on peak area measurements</p> <p>Flavonoid and phenolic acids Analyses Identification against available standards using DAD detector</p> <p>Proanthocyanidin Analysis HPLC on normal phase column with fluorescence detection according to degree of polymerization. Quantification based on total peak areas</p> <p>PDF of chromatogram with peak areas, identification against common available standards, and quantitation if required</p>
User Rates	<p>For each analysis Less than 10 samples - \$200 per sample (Industry), \$150 (Academic) 10 to 50 samples - \$100 per sample (Industry), \$ 60 (Academic) More than 50 samples - \$50 per sample (Industry), \$35 (Academic) \$10 will be added per sample for quantitative analysis</p>

Liquid Chromatography-Mass Spectrometers (LC-MS and LC-MSⁿ)

Instrument Specifications	<p>Shimadzu LCMS-IT-TOF (m/z 150 – 2500, 1 ppm error) Agilent QTOF G6510A (m/z 150 – 2500, 5 ppm error)</p>
User Rates	<p>Sample Analysis - \$400 per sample (Industry), \$250 (Academic) Includes sample preparation, full scan of ions in positive and negative modes with MS/MS, data analysis and interpretation</p>

Gas Chromatography-Mass Spectrometers

Instrument Specifications	<p>Agilent 7890 with 5975C inert XL EI/CI MSD triple axis detector</p>
User Rates	<p>Sample Analysis - \$150 per sample (Industry), \$80 (Academic) For volatile samples only (no derivatization) Includes method development and identification from NIST library</p>

Circular Dichroism Spectrometer	
Instrument Specifications	Jasco J-815 Cd Spectrometer
User Rates	Sample Analysis - \$100 per sample (Industry), \$50 (Academic) Includes scan of sample, no data analysis

Polarimeter	
Instrument Specifications	Jasco P-2000 Polarimeter
User Rates	Sample Analysis - \$50 per sample (Industry), \$25 (Academic) Includes scan of sample, no data analysis

Grace Reveleris® Prep purification system	
Instrument Specifications	Both flash and preparative isolation of small molecules. Max pressure 1700 bar
User Rates	Personal communication per project

High-Performance Counter-Current Chromatography	
Instrument Specifications	Dynamic Extractions Ltd - Midi-HPCCC with Armen high-pressure pump equipped with UV/Vis detector
User Rates	Personal communication per project