MAJOR EQUIPMENT

Major Equipment for EHBC Users

Emory HPLC Bioanalytical Core (EHBC) is located at the Woodruff Memorial Building Room 6306 and occupies 400 sq.ft of space. The core is equipped with one ACQUITY UPLC H-Class PLUS System, one ACQUITY UHPLC Arc System, two ESA CoulArray systems and one Waters HPLC system.

ACQUITY UPLC H-Class PLUS System. The ACQUITY UPLC H-Class PLUS Core System includes integrated solvent, sample and single column heater (CH-A) configured for quaternary solvent delivery (QSM) and sample introduction via a direct inject sample manager (SM-FTN-H). The system was equipped with both ACQUITY UPLC PDA eLambda Detector, ACQUITY UPLC Fluorescence Detector. The system is controlled by Waters Empower 3.0 software.

ACQUITY UHPLC Arc System. The ACQUITY Arc System with Temperature Control Configuration includes quaternary solvent delivery (QSM-R) and sample introduction via a direct inject sample manager (SM FTN-R) with temperature control. The system was equipped with 2998 PDA w/ Low Dispersion Flowcell and electrochemical detector. The system is controlled by Waters Empower 3.0 software.

ESA CoulArray Systems. Each of the ESA 5600A CoulArray systems is equipped with ESA model 584 pump, PEEK Pulse damper, ESA 542 refrigerated autosampler injector, temperature controller, model 5020 guard cell, and model 6210 coulometric array cell. The system is controlled by ESA CoulArray V3.10 software.

Additional Equipment Access to:

SpectraMax M5e spectrophotometer. A UV/Vis variable wavelength microtiter plate reader with Softmax Pro software used for performing colorimetric spectrophotometrical protein assays.

QSONICA Q500 Sonicator. The Sonicator consists of Q500 ultrasonic processor, Model 431C2 cup horn and model 4905 recirculating chiller used for sample homogenization.

Branson sonifier 450. A sonicator used for tissue homogenization.

VWR® ULT Freezers.