

Facilities and Resources

Fields Relevant for the Emory HPLC Bioanalytical Core (EHBC)

The Emory HPLC Bioanalytical Core (EHBC), one of the Emory Integrated Core Facilities (EICF), is supported by the Georgia Clinical & Translational Science Alliance, and the Emory University School of Medicine. The HPLC Bioanalytical Core measures monoamines, purines, and amino acids using HPLC methods in biological matrices including tissue extract, cell lysate, plasma, serum, CSF, urine, and microdialysate. In addition, we provide expertise to develop and validate HPLC methods to measure some drugs, endogenous compounds, peptides, and proteins.

The 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 five UPLC/UHPLC/HPLC systems, which includes one ACQUITY UPLC H-Class PLUS System, one ACQUITY UHPLC Arc System, two ESA CouArray detection systems and one Waters HPLC system. The Core also has access to additional equipment for sample preparation including a SpectraMax M5e spectrophotometer (Molecular Devices, Sunnyvale CA) which is a UV/Vis variable wavelength microtiter plate reader with Softmax Pro software used for performing colorimetric spectrophotometric protein assays, and Branson sonifier 450 which is used for tissue homogenization. Also available are a Millipore Water system, centrifuges, sonicator, pH meters, balances, oven, refrigerators, hot plates, stirrers, -70°C freezers, and other standard equipment.