

# Analytical Chemistry Lab

## Equipment / Technology:

- 1) The MSM ACL is equipped with two Agilent (HP) 1100 series high HPLC systems. The HPLC systems in the ACL include: a) An HP (Agilent) 1100 series HPLC equipped with a Diode Array Detector (DAD), a Variable Wavelength Detector (VWD) and a 1046A Fluorescence Detector (FD); b) An HP (Agilent) 1100 series HPLC equipped with a 1100 series Fluorescence Detector (FD) and an Agilent 1049A Electrochemical Detector (ECD) is available for analyzing catecholamines.
- 2) The ACL has a Spectromax Plus is a UV/VIS variable wavelength microtiter plate reader with Softmax Pro software used for performing colorimetric spectrophotometry and immunoassays.
- 3) Two Agilent (HP) Gas Chromatographs (GC) systems for the detection of drugs and their metabolites. The GCs include an Agilent (HP) 6890 Series capillary GC with Flame Ionization Detector (FID) and Nitrogen Phosphorus Detector (NPD) and an Agilent (HP) 5890 Series capillary GC coupled with 5972 Series Mass Spectrometer (MS-EI). Data can be acquired in the SCAN or Selected Ion Monitoring (SIM) modes.

## Service Charges:

The Analytical Chemistry Laboratory performs custom testing and has a standard fee schedule for services. The fee structure is based on the amount of time required to process the samples (extraction, derivatization, etc.) and the cost of supplies and reagents. For non-NIH sponsored projects (MSM and outside institutions and corporations), labor costs are assessed. A complete listing of currently available tests or cost per requested assay can be emailed or faxed upon request. Additionally, since the Analytical Chemistry Laboratory performs custom testing, if the assay that you want is not on the list, please contact the core leader directly for test availability and the most up-to-date pricing.



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