

OHSU Research Cores and Shared Resources

Sterol Analysis Laboratory

OHSU's cores are your campus technology partners dedicated to the success of your project. For optimal results, take advantage of the state-of-the-art scientific resources within the OHSU community.

www.ohsu.edu/cores



Along with the OHSU Bioanalytical Shared Resource/Pharmacokinetics Core, the Sterol Analysis Laboratory Core provides bioanalytical services for the analysis of small molecules in biological matrices (dried blood spots, plasma, serum, urine, etc.), The focus of the Sterol Analysis Laboratory is providing bioanalytical services performed under regulated conditions.

Leadership

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Service Overview

The Sterol Analysis Laboratory provides five essential services:

- Provide access to analytical services performed using state-of-the-art analytical instrumentation for the analysis of small molecules in biological matrices.
- The SAL Core functions as a service laboratory to provide complete analysis of biological samples, including sample preparation and analysis.
- The SAL Core is accredited by the College of American Pathologist to report results for biochemical assays used to test for rare genetic diseases of cholesterol synthesis (testing performed under CLIA regulations; CLIA # 38D0656829 and CAP # 2442607).
- The SAL Core can provide development and validation of new sample preparation and analytical methods according to regulation requirements.
- Educate the OHSU and wider community about the capabilities of the SAL Core, in particular the biochemical diagnostic testing available through the OHSU SAL Core.

Equipment

Liquid Chromatography/Tandem Mass Spectrometry Systems include:

- Two Applied BioSystems 5500 QTRAP triple-quadrupole, linear ion trap hybrid mass spectrometers provide quantitative and qualitative performance with UPLC capability available from an in-line Shimadzu Prominence system. Offers greater sensitivity than the 4000 QTRAP and the ability to perform MS³ experiments.

Gas Chromatography

- An Agilent 6890 GC/MSD that includes an autosampler, split/spiltless and multimode injectors for use with molecules requiring a gas chromatographic interface for separation. The instrument includes electron impact or chemical ionization modes as well as a separate flame ionization detector.

