

# Fast, Efficient, and Simplified MetID

Routine Biotransform Solution



Answers for Science.  
Knowledge for Life.™

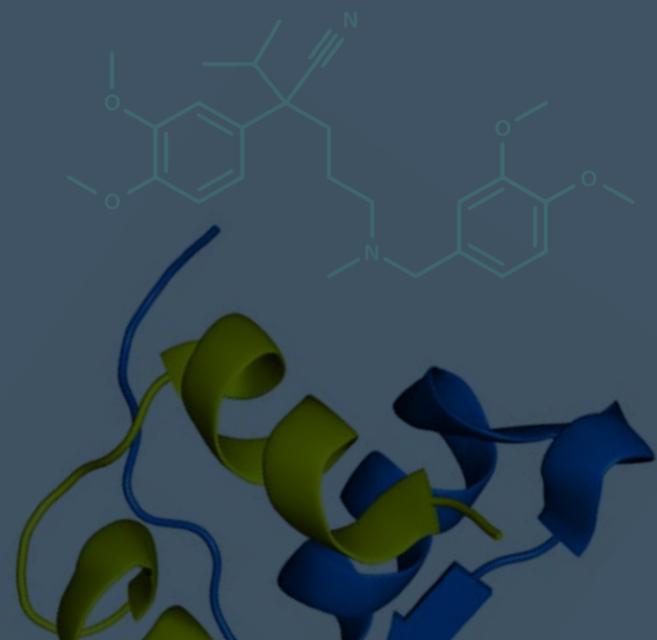
**High Productivity Drug Metabolism  
and Biologics Catabolism**

## Complete Solution for High-Throughput MetID Analyses

In therapeutic development the clock is ticking, and samples are coming into your lab fast and furiously. You have to identify soft spots and the top metabolites quickly, so chemists and biologists can optimize the effectiveness of the therapeutic candidate.

The Routine Biotransform Solution from SCIEX offers a simple and streamlined platform for high-throughput MetID analyses for both small and large molecule therapeutics. The compact, easy-to-use instrumentation and powerful automated data processing software helps you achieve the productivity and throughput you need to keep your projects moving.

Explore the Routine Biotransform Solution and learn how to accelerate your MetID studies.



**Streamlined Hardware for Efficient Metabolite ID**  
The **X500 QTOF** high-resolution, accurate mass system is an easy-to-use, robust platform for streamlining your high-throughput metabolic stability and MetID studies.

**Robustness with Ultra-Low Downtime**  
The **ExionLC™ AD** delivers high accuracy, reliability and repeatability across thousands of injections, with maximum uptime.

**Simplified Set-Up for Accelerated Results**  
Save time and energy with the intuitive and user friendly **SCIEX OS** user interface. Simplified set-up makes creating and running methods easy, even for non-mass spec experts.

**Small Molecule Metabolism and Biologics Catabolism Analysis in the Same Package**  
**MetabolitePilot Software 2.0** offers small molecule drug metabolite profiling and structure determination as well as the industry leading solution for peptide and biologic catabolism analysis. All from the same platform and software you know and trust.

## Streamlined Instrumentation and Software for Rapid Results

Choose between the new X500R or X500B QTOF Systems that were designed to be compact, robust, and easy-to-use even for non-mass spec experts. X500 QTOF systems run on SCIEX OS, a revolutionary new control and acquisition interface that makes setup and data acquisition a breeze. The unique, tiled interface in SCIEX OS will help you get your metabolism and catabolism studies up and running quickly, so you can get results faster.

### X500 Series QTOF System: Streamlined Hardware for High-throughput Analyses

- Renowned Turbo V™ Source for maximum robustness
- Ultra fast scan speeds with high-resolution to ensure optimal detection of metabolites at UHPLC timescales
- Six heater drones throughout maintain mass stability

Ultra-compact, true benchtop system

Independent calibrant delivery path for high accuracy and reliability in results even across large sample batches

### SCIEX OS Interface: Simplified Set-Up for Maximized Productivity

- Tiled interface for intuitive setup
- Fast, automated calibration seamlessly built-in
- Quick look data review in real time

#### Acquisition

Batch

Queue

MS Method

LC Method

MS Tune

Quick method building

Maximize uptime with automated system checks and diagnostics

#### Processing

Explorer

Analytics

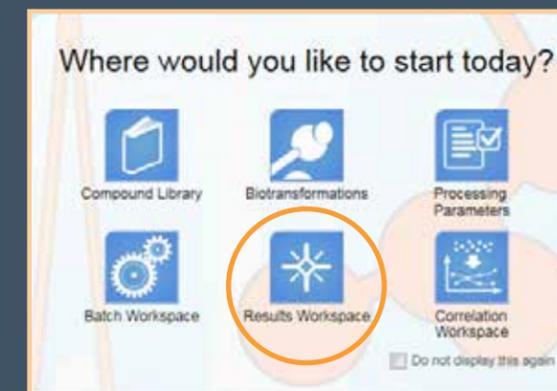
## Intelligent and Flexible Data Acquisition to Get Answers Fast

Despite its uncomplicated exterior, SCIEX OS packs powerful sample data acquisition within its interface. For efficiency and effectiveness, you can choose standard Information Dependent Acquisition (IDA), which picks the top intensity MS peaks for MS/MS acquisition. Alternatively, take your assay to the next level with SCIEX proprietary Real-Time Multiple Mass Defect Filtering (RT-MMDF) acquisition, which intelligently picks the most likely drug related MS peaks for MS/MS analysis, based on information about the parent molecule, so only relevant information is collected. You can even pursue a Data Independent Acquisition Strategy (DIA) with SWATH® Acquisition, which enables unbiased MS/MS acquisition of all detectable precursors, and allows you to retrospectively mine the data, even on high-throughput MetID analyses.

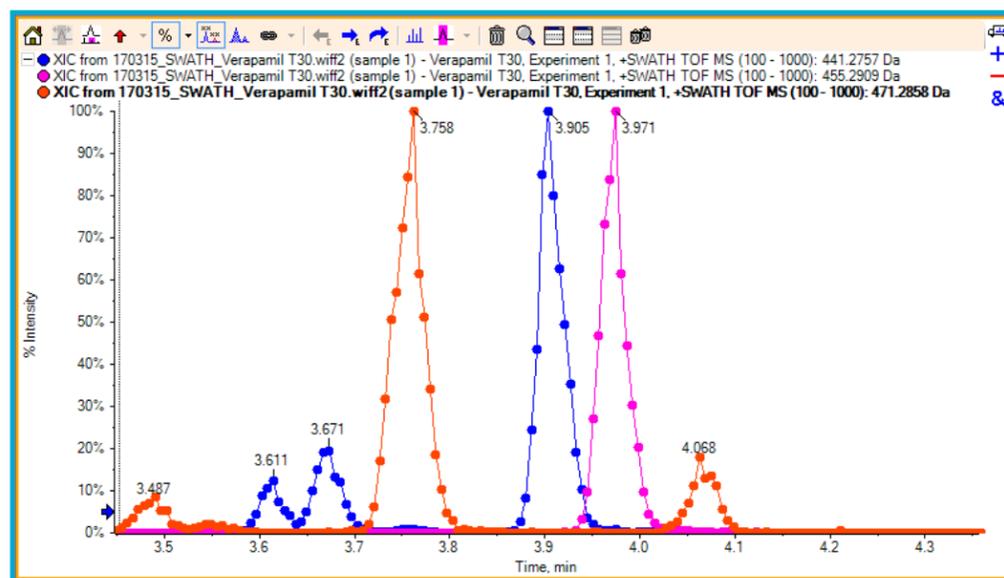


## Powerful, Automated Data Processing

New MetabolitePilot™ Software 2.0 automates assignment of MS/MS data to metabolites, with advanced identification, interpretation, visualization and correlation for a wide variety of molecule types. The processing power and flexibility in MetabolitePilot Software means you have a single go-to software for all your MetID assays.



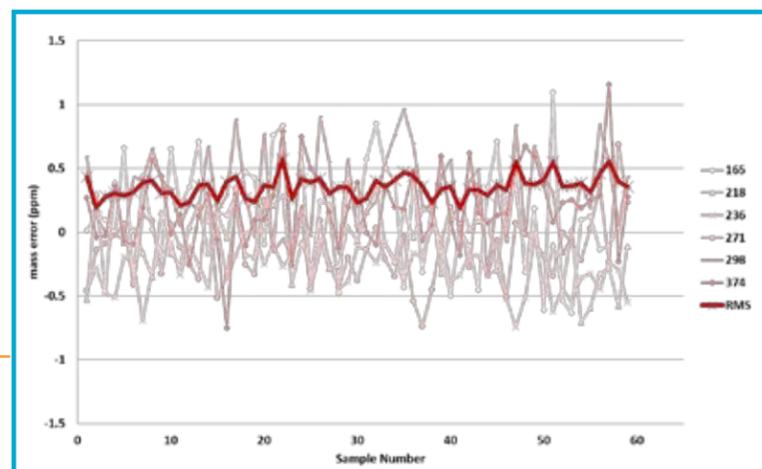
The user-friendly software interface puts processing, interpretation, visualization, and reporting all in one place



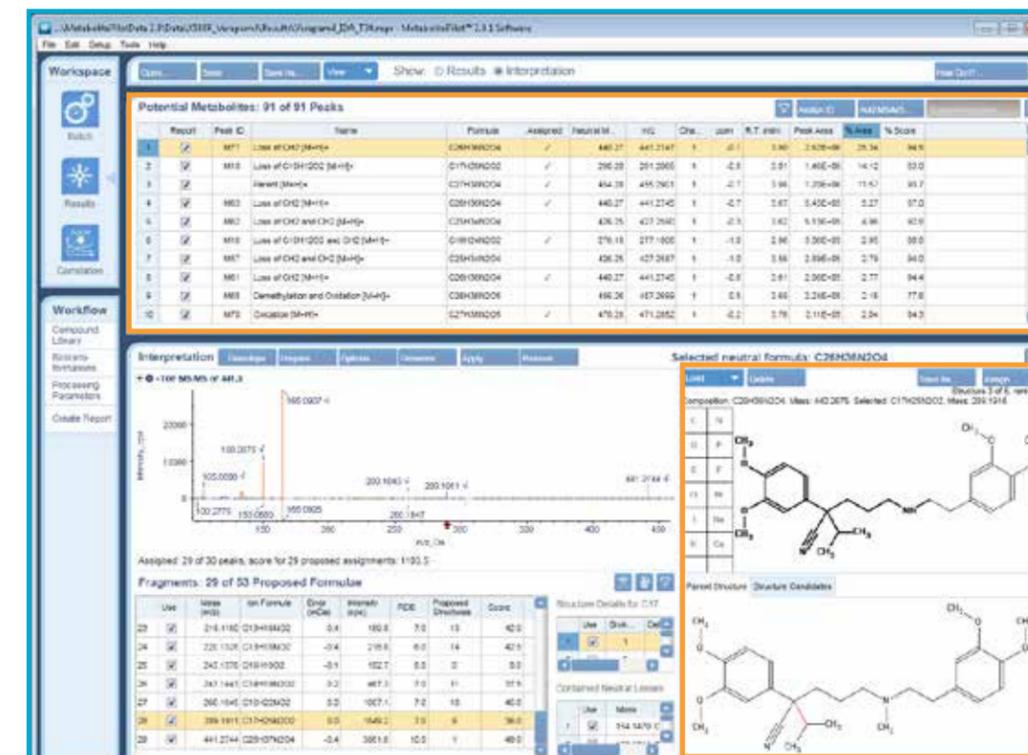
Rat liver microsomes incubation of verapamil, showing major oxidized (red), methylated (blue) metabolites, along with parent (pink).

Accurate metabolite ID at UHPLC timescales with ultra-fast acquisition capabilities without sacrificing resolution.

TOF-MS Resolution >37,000  
TOF- MS/MS Resolution >36,000



Robust mass accuracy for routine metabolite analysis as shown by ppm mass error over 60 injections on a single system calibration



Rat liver microsomes incubation of verapamil using predicted and generic peak finding in MetabolitePilot Software

Get identification and assignment with predicted metabolite peak finding using multiple peak finding algorithms based on TOF-MS, mass defect and isotope pattern as well from TOF-MS/MS characteristic product ions and neutral losses

Speed your time to answers with automated structure assignment correlated with high-resolution MS/MS data



# Your Success is Our Success

## We take it personally

As a SCIEX customer you have access to a world-class customer support organization. Wherever you are, we're there with you as a trusted partner to answer questions, provide solutions, and maximize lab productivity.

Our customer support organization has access to the latest product updates, software revisions, methods and repair procedures to make sure that you stay on top of your game.

When you have questions, we have answers.

Learn more at [sciex.com/customersupport](http://sciex.com/customersupport), or locate your local account representative at [sciex.com/contactus](http://sciex.com/contactus)

For more information about SCIEX Metabolism Solutions, Visit [sciex.com/biotransform](http://sciex.com/biotransform)

Answers for Science.  
Knowledge for Life.™

AB Sciex is doing business as SCIEX.

© 2017 AB Sciex. For Research Use Only. Not for use in diagnostic procedures. The trademarks mentioned herein are the property of AB Sciex Pte. Ltd. or their respective owners. AB SCIEX™ is being used under license.

RUO-MKT-03-5449-A

---

#### Headquarters

500 Old Connecticut Path  
Framingham, MA 01701 USA  
Phone 508-383-7700  
[www.sciex.com](http://www.sciex.com)

#### International Sales

For our office locations please call the division headquarters or refer to our website at [www.sciex.com/offices](http://www.sciex.com/offices)

