MDL® Assay Explorer® is a powerful, customizable and extensible life science experiment management tool that enables biologists to capture methodology and to analyze, report and manage results within one flexible system.

**Out-of-the-box versatility**
MDL Assay Explorer captures all your biological data in a single repository. Analyze, visualize and store results using a flexible environment—without programming support. From screening to complex in vivo assays, you can quickly:
- Move controls, add time points, concentrations, conditions and results
- Analyze a grid of IC₅₀ results
- Sort, filter, chart and print results
- Create custom forms to capture methodology
- Use existing or add custom curve-fitting algorithms
- Create and view experiments directly in the Microsoft® Excel® environment

**Flexible experiment setup**
Use Assay Explorer to manage your protocols, experiments and results.
- Capture all your biological results, including screening, ADME, toxicology and in vivo data
- Build any number of data or plate layouts and reader formats—including 3D layouts
- Use the standard formula templates and calculations, or create your own
- Capture images, documents and graphics as results
- Create jobs for unattended experiment generation in an HTS environment
- Improve the workflow by integrating with MDL® Plate Manager

**Ensure consistent, reliable and searchable data**
Assay Explorer improves data consistency and searchability through its Dictionary Manager. Customizable dictionaries enforce a common vocabulary throughout an organization, building a standard nomenclature for materials, methods, conditions and results. This makes querying and reporting more effective and enables scientists to make decisions based on all available information.
For Scientists

Powerful analysis for improved decision-making

MDL Assay Explorer makes it easy for scientists to:

- Select from multiple graphics for visual analysis
- Invalidate data points from charts or graphs
- Analyze experimental results directly in Excel
- Create reports in PDF, Microsoft Word, Microsoft Excel, HTML and other formats with MDL® Report Manager
- View chemical structures along with experimental results
- Choose from over 60 regression models to compare curve fits
- Utilize powerful statistical analysis tools, such as industry leaders Pharsight WinNonlin®, Graphpad Prism® and SAS JMP®, which integrate directly with Assay Explorer
- Optimize curve-fitting parameters, including the number of iterations, to generate the best fit
- Add results and conditions at experiment analysis; no need to wait for IT
- Enhance visualization and statistics using MDL® Assay Explorer Visualizer (see data sheet)

For IT

Flexible, customizable, extensible

Your IT staff can quickly integrate Assay Explorer with in-house systems and third-party applications to fit your company’s unique workflow. Using the integrated Microsoft® Visual Basic for Applications®, IT personnel can create add-ins to communicate with laboratory automation, email status and results, apply custom data validation rules and access plate inventory databases. Assay Explorer stores all data in an Oracle® database and gives IT the unique flexibility to modify the database schema to accommodate your specific data storage requirements.

Part of a complete biology workflow solution

Assay Explorer integrates readily with other MDL data systems to support your specific biology workflow. Use Assay Explorer in conjunction with MDL Assay Explorer Visualizer, MDL Plate Manager, MDL® Registration, MDL® Isentris®, MDL® ISIS for Excel, MDL Report Manager and MDL® Direct.

About Elsevier MDL

Elsevier MDL provides informatics, database and workflow solutions that accelerate successful R&D by improving the speed and quality of scientists’ decision making. Academic and industrial researchers around the world depend on Elsevier MDL for innovative and reliable discovery informatics software solutions augmented by 400 Elsevier chemistry and life sciences journals and related products.

MDL and Assay Explorer are registered trademarks of MDL Information Systems, Inc. (Elsevier MDL) in the United States and/or other countries. WinNonlin is a registered trademark of Pharsight Corporation in the United States and other countries. JMP is a registered trademark of SAS Institute Inc. in the United States and other countries. Graphpad Prism and Prism are registered trademarks of Graphpad Software Inc. Microsoft and Excel are registered trademarks of the Microsoft Corporation in the United States and other countries. The name ‘Assay Explorer for Excel®’ is referential only, and implies no company or product endorsement from, or affiliation with, the Microsoft Corporation. Oracle is a registered trademark of the Oracle Corporation in the United States and other countries. Partek is a registered trademark of Partek Inc. in the United States and other countries. Other names used herein may be the trademarks or registered trademarks of their respective holders, in the United States and other countries. © 2007 Elsevier MDL. All rights reserved. AE不宜/01-07/5E

Visit www.mdl.com for more information. Sign up for the Insight eNewsletter to keep up to date with breaking news about MDL products, services and related offerings.