

BIOVIA ASSAY DATASHEET

The introduction of the plate-based screening for running numerous experiments in parallel has vastly increased the throughput and productivity of research in many domains. With the ability of rapid screening of diverse entities (such as biologics or small molecules) to identify active compounds, High Throughput Screening (HTS) has led to an explosion in the rate of data generated in recent years. One of the most fundamental challenges in HTS experiments is to glean assay significance from mountains of data. Researchers require the development and adoption of appropriate experimental designs and analytic methods for both quality control and hit selection. Data analysis needs to be automated yet remain flexible. Researchers benefit most from a superior software solution that includes:

- Storage and handling of raw data from integrated plate-based instruments
- Comprehensive data analysis with broad support for custom workflows
- Integration with up and downstream applications
- Result storage, query and reporting

BIOVIA Assay enables experts in computation and researchers alike to save time, reduce errors, and improve innovation.

Overcome Barriers to Innovation and Process Efficiency

What if you could:

- Save time for lead candidate review?
- Improve scientific insight and decision-making to more easily identify promising candidates?
- Reduce the cost and number of experiments performed?

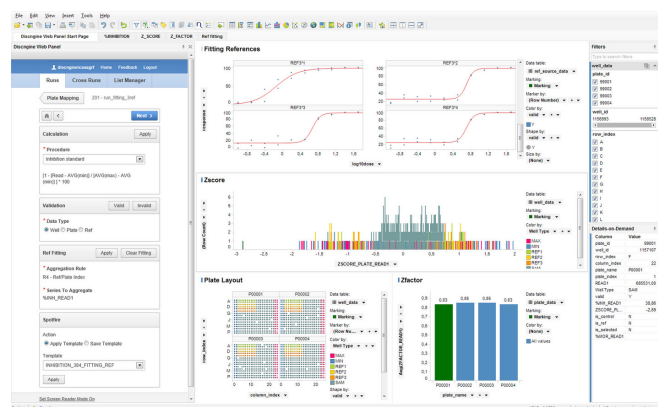


Figure 1. Plate layout, curve fitting and assay metrics.

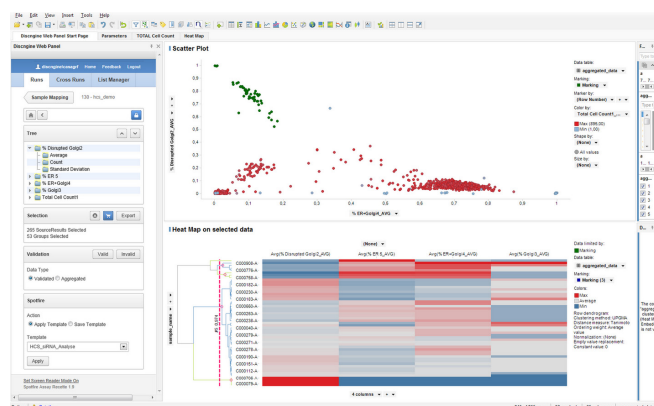


Figure 2. By following the guided workflow provided by the application, you can easily import and analyze plate based screening data in order to identify promising candidates for further investigation

WHAT BIOVIA ASSAY DOES

BIOVIA Assay is a lightweight, easy to use web application that enables rapid customization by following a guided and configurable workflow so that you can more easily identify and select optimal candidates for further investigation and analysis. Integrated with BIOVIA Foundation and Pipeline Pilot, BIOVIA Assay lets you design and manage your screening campaigns. Our Oracle based platform covers analysis of cellular, molecular and high content screening. Fully integrated with your lab equipment, Assay can be adapted to your needs and thus extended to very specific types of analyses. BIOVIA Assay is fully compatible with BIOVIA Sample, our sample management and tracking platform.

WHO BENEFITS

BIOVIA Assay enables discovery team chemists and biologists to carry out plate based screening experiments, analyze data more efficiently, generate high-quality results, and leverage these to more easily evaluate the quality of lead candidates for further investigation and optimization. BIOVIA Assay equips discovery teams with a powerful set of tools to more efficiently and effectively identify lead candidates that meet specific quality criteria for promotion into development.

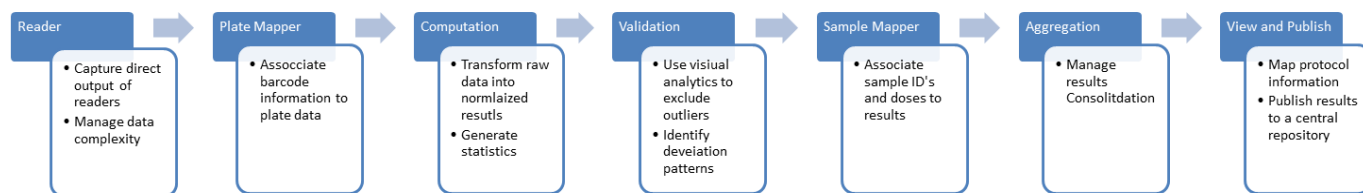


Figure 3. Plate layout, curve fitting and Assay metrics.

EXAMPLE WORKFLOW

Developed for ease of use, BIOVIA Assay enables research scientists to follow a guided workflow to understand and evaluate candidates. The workflow is configurable by expert developers.

KEY FEATURES

- Dynamic Control and dilution for plate data design
- Dynamic sample mapping
- Embedded data warehouse for results sharing and data integration
- Automated calculations and statistics
- Cross run and profiling analysis
- R statistics model integration
- Integration options for Pipeline Pilot and Tibco Spotfire

To learn more about BIOVIA Assay go to biovia-biologics.com



Figure 4. BIOVIA Assay provides integral capabilities on the BIOVIA Biologics and BIOVIA Small Molecule Solutions.

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

