Gen5™ Data Analysis Software

Gen5[™] 2.0 Data Analysis Software is a culmination of over 30 years of experience and user feedback resulting in the newest and most advanced microplate reader software available today. Gen5 is a unique combination of power and ease-of-use that drives productivity and saves time. Use Gen5 to control BioTek's microplate readers and export data, or as a fully integrated processing tool.

Features:

• Beginner-Friendly Software

Gen5 2.0 is built around logical laboratory workflows to read microplates and produce, analyze and export data. In Gen5, you simply click "Read Now" and follow the prompts. At the end of the read, answer the question: "Do you want to export to Excel?" With Gen5 you don't have to spend hours figuring out how to get the job done.

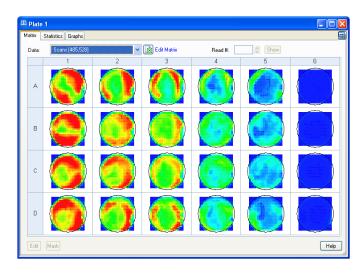


All-in-One Solution

Control any current BioTek reader, automate the entire process and produce publication-ready reports in minutes using one integrated, powerful software tool. It doesn't get more efficient than this.

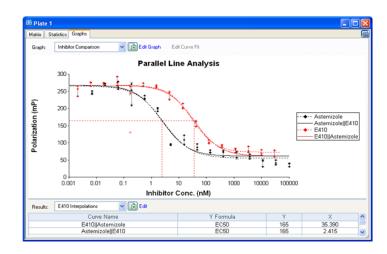
• Up-to-Date Web-based Sample Files

A searchable library of sample files with data is available online. Existing files are kept up-to-date and new files are added on regularly. Gen5 users can upload files to share their experiments and sample data with other Gen5 users.



• Powerful Functionality

Gen5 2.0 comes with powerful built-in tools such as 4-P and 5-P curve fits with or without weighting, parallel-line analysis, advanced kinetic analysis, well scanning and much more. The software has been specifically designed to analyze matrices of data that are difficult to process in Microsoft® Excel® spread sheets. Special attention has been placed on result presentation familiar to microplate users so complex data can be displayed in a clean, colorful way to facilitate interpretation.



Gen5 Secure: You are in Control

Gen5 2.0 Secure is for you if secured data storage, user group management or 21 CFR part 11 compliance are a core part of your requirements. It includes additional features such as 25 licenses per copy, quality control trending module with Levey-Jennings charts and automatic email notification on trigger events.



Specifications:

General

Compatible readers: All current BioTek microplate readers

Validation guidelines: Validated per US FDA and ISO 9001/ISO 13485

requirements

Software validation package: Available

Operating system: Microsoft® Windows® 7 32 and 64 bits, Windows

Vista and Windows XP (Pro editions)

Minimum requirements: Pentium® III 500 MHz, 512 MB RAM, 2 GB hard

drive space

Plate geometries: >80 pre-programmed, user programmable

Reader Control

Simultaneous control: 2 readers

Pathlength correction: On select readers

Steps per sequence: Unlimited

Detection modes per

sequence: Unlimited

Multi-mode kinetic: Up to 3 detection modes per kinetic loop

Area scan resolution: Up to $99 \times 99 (9,800 \text{ data points per well})$ on

select readers

Shaking duration: 16-minutes stand-alone step; Unlimited

continuous shaking in kinetic cycles

Data Analysis

Protocol type: Standard (plates are independent)

Calibrator (1 calibration plate, multiple sample

plates)

Multi-Plate (standard and controls on several

plates)

Paneled (multiple assays per plate)

Sample types: Standards, assay controls, sample controls (spikes),

blanks, samples

Transformation steps: Unlimited

Basic transformations: Blanking, ratio, delta, normalization, custom

Curve fits: Linear, polynomial (degree 2 to 6), 4-P, 5-P, Logit-

Log, Point to Point, Spline

Weighting: 1/Y, 1/Y2, $1/(Std dev Y^2)$, $1/S^2$

Parameter constraint: Estimate all, Y intercept, fixed parameters

Parallel line analysis: Standard, non linear analysis for relative potency calculation

EC₅₀ / IC₅₀ calculation

Kinetic analysis: Max slope, mean slope, min/max signal, lag time,

Y intercept, onset time, area under the curve,

custom

Spectral analysis: Min/max signal, peak wavelength, integral,

custom

Qualitative analysis: Multi-cutoff data analysis

Validation and QC

Dose-response:

QC trending: Levey-Jennings charts (Gen5 Secure)

Pass/fail validation criteria: Yes
Z' analysis: Yes

Statistics (mean, stdev, %CV): Yes, automatically calculated on replicates

BioTek

BioTek Instruments, Inc. Highland Park, P.O. Box 998 Winooski, Vermont 05404-0998, USA

Tel: 802-655-4040 • Toll-Free: 888-451-5171 Outside the USA: 802-655-4740 • Fax: 802-655-7941

Exporting

Format: .xls, .xlsx, .xlsm, .csv, .txt

Quick export: One click any data / graph on screen

PowerExport: Auto / customizable embedded Microsoft Excel

spreadsheet

ASCII export: Auto / customizable text export

Number of exports per file: Unlimited

Reporting

Number of reports per file: Unlimited

Report type: Per plate: All data regrouped per microplate

Per sample: All data regrouped per sample

Gen5 Secure - 21 CFR Part 11 Compliance

System administrator: Creation and maintenance of user accounts and user

groups

Protected functions: Per user account

Time-stamped audit trails: Data and protocol audit trails

Electronic signatures: Data and protocols

Secure record storage: Gen5 files stored in secure shared-access database

Windows authentication: Single Sign On (SSO) available

Email notification: Automatic email notification based on trigger event

*Specifications subject to change

Versions:

Gen5

Advanced reader control functionality, powerful data analysis and flexible exporting/reporting tools combined in one easy-to-use software; For applications in life science research, pharmaceutical and biotechnology laboratories.

Gen5 RC (Reader Control)

Simple reader control interface provides easy data collection and output to text and Excel.

Gen5 Secure

For secured data storage, user group management or 21 CFR part 11 compliance; Includes 25 licenses per copy, quality control trending module with Levey-Jennings charts and automatic email notification on trigger events.