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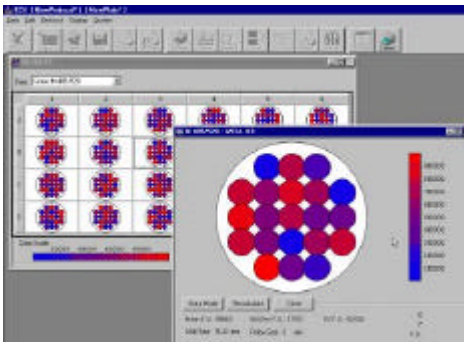
KC4™ Data Analysis Software



Overview

Bio-Tek's KC4™ is the most innovative tool available to create custom, publication quality reports of microplate applications. KC4's PowerReports™ feature uses true Object Linking and Embedding (OLE) technology to interact with Microsoft's Excel and Word programs, providing total control over all report formatting using data objects created by KC4.

KC4 is suitable for all applications, such as:

- Research
- Nucleic acid quantitation
- Drug Discovery
- Fluorescence, luminescence assays
- Proteomics and Genomics
- Enzyme kinetics

KC4 Signature is the first microplate data reduction software to be totally compliant to the FDA regulation 21 CFR Part 11. Thorough research of the regulation and feedback from key customers provided a design concept to fully address this important requirement. Unlike other microplate data reduction packages with Part 11 features, KC4 Signature is **self-contained**, that is, all security features, tracking functions and electronic signatures are available with this single program. The design allows for easy single-user implementation or broad-based network installation without the need for additional, external software packages or tools.

Recommended System Configuration:

- Pentium 4 processor, 300 MHz minimum
- Microsoft® Windows® 98/NT/2000/XP operating system
- 256 MB RAM
- 30 MB of available hard drive space for program files
- Additional hard drive space for protocol and plate data files
- CD ROM drive
- Keyboard and mouse
- Serial port (or USB port with serial adapter)
- To use KC4's PowerReports feature: Microsoft Office 2000, XP or 2003 (KC4 v3.4 and higher)

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Features

- Electronic signature of both Data and Protocol files
- Multi-level user access and permissions
- Encrypted password entry and password change feature for all users
- Administration from within KC4 Signature in a single-use or network environment
- Administrator-configurable
  - Idle time-out
  - Number of unauthorized logins before lock out
  - Password length and repetition allowance
  - System wide Protected Function definition
- Data Audit trail to log all user permitted actions
- Protocol Audit trail to log changes to protocol setup
- Individual protocol settings protection for those created by a PowerUser or Administrator
- Secured database for storage of all protected data and protocol files
- Automatic database export facility for backup of secured files
- Superior context-sensitive Help System

In addition to the extraordinary, intuitive implementation of 21 CFR Part 11 compliance in KC4 Signature, the software provides the ultimate in flexibility for all data reduction requirements for absorbance, fluorescence and luminescence applications. KC4's exclusive PowerReports feature provides complete user control over custom report formatting by using data objects created by KC4 to be embedded in Microsoft Word or Excel at the click of a mouse. Custom reports and powerful calculations couldn't be any easier or faster than with KC4's PowerReports.

Versions

KC4
Reader control and data analysis software.
Part #5290512

KC4 Signature
21 CFR Part 11 compliant version of KC4.
Part #5290510

KC4 Signature Upgrade (from v2.7 or lower)
Part #5290511

KC4 Signature Upgrade (from v3.0)
Part #5290508

KC4 Upgrade (from v2.7 or lower)
Part #5290514

Specifications

Instruments supported	• Clarity • Synergy HT (all models) • PowerWave (all models except PowerWave200 and PowerWave340 s/n < 188920) • FLx800 (all models except injector model) • µQuant • ELx800 (all models) • ELx808 (all models) • FL600 (all models)
Microplate types supported	• 6- to 384-well flat, round and v-bottom plates • 60-, 72- and 96-well Terasaki plates • Bio-Cell™ *New plate types/dimensions can easily be added to KC4's extensive plate database*

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Read methods	• Endpoint • Kinetic • Incubation Control • Shaking Control • Pathlength Correction (All Synergy HT, PowerWave and µQuant models) • Monitor Well Reading • Partial Plate Reading (all readers) • Barcode ID output (808, PowerWave) • Linear Scanning across well (808, PowerWave) • Area Scanning (Synergy HT, FLx800, µQuant, ELx800 and FL600)
User interface features	• Protocol Wizard for protocol creation, customizable toolbar icons • Extensive context-sensitive Help system • Pull down list for data viewing • Multi-user password login in KC4 Signature (see Protocol/Data Security)
Diagnostics tests	• Universal Plate Test and Archive • Reader System Test and Archive • Configuration and results can be protected from changes
Protocol / data security	• Includes Multi-user password login, with Administration available (KC4 Signature) • More protected functions are available • Data Audit Trail records any changes or masking of data • Protocol Audit Trail records any changes to protocols
Report / export features	• Automatic or Manual Print • Automatic or Manual Export directly to excel or to file • Reports and Export Data are customizable • Column and Matrix Reports • Standard Curve can be reported • Exclusive PowerReports™ feature uses Microsoft Word/Excel for total report customization. Data objects from KC4 are embedded into an Excel sheet or Word document, customized, then saved into KC4 protocol. At runtime, data fills the sheet or document.
Customizable well identifiers	Fully customizable well identifiers per protocol
Sample identification	• Manual Entry/Barcode Entry • Sample Name Import from Text file • Sample Name list can be printed for use as pipetting guide
Change / mask / create data	Yes, KC4 Signature's Data Audit Trail tracks changes (see more on this in Protocol/Data Security)
Curve fit types	• Linear • Polynomial (to 4th degree) • Point to Point • 4-P • An option to drive the curve through the origin is available for polynomial curves only
Curve storage	Yes, curves can be stored and recalled for re-use
Transformation formulas	One formula per well, with three levels of formulas available
Plate formulas	Multi-Plate transformation with three levels of transformation available for endpoint and kinetic data allows for complex calculations between data sets
Kinetic data reduction	• Max V or Mean V • Onset OD, Onset Time • Mean/Min Max OD • Formula Calculation • Up to 2 kinetic data sets can be evaluated at a time
Kinetic options	• Multiple Filter Sets (FL600, FLx800) • Selectable units for kinetic reactions • Append to Kinetic File can be either automatic or manual • Lag Time calculation • Kinetic zoom on multiple wells to view reactions in real time
Cutoff calculation	Yes, including customizable symbols
Validation formulas	Yes, multiple levels of validation can be performed on user-selected data input

Specifications subject to change.