Периферийные устройства Biotek

Технические характеристики

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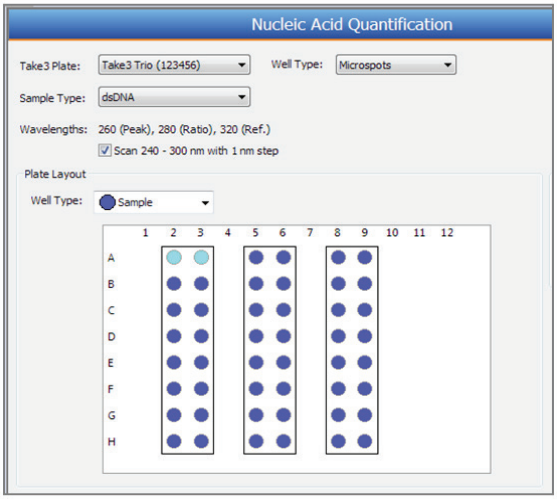
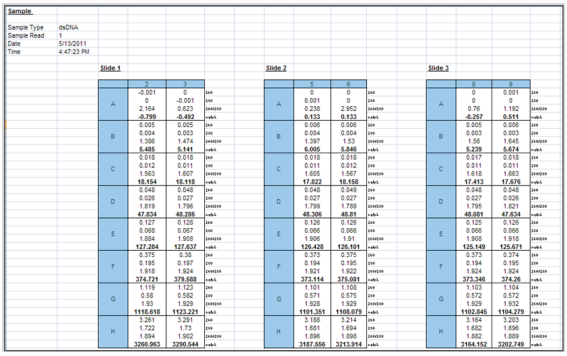
Take3™ Micro-Volume Plates

Measuring micro-volume samples just got faster and easier. BioTek's Take3™ and Take3™ Trio Micro-Volume Plates are designed to increase the functionality of your BioTek microplate spectrophotometer, multi-mode or Hybrid reader by decreasing the sample size required to a mere 2 µL.

This very small volume allows for quick quantification of nucleic acid and protein samples without dilution, saving time and valuable sample. For added utility, standard cuvettes or the patented BioCell™ can also be used for quick 1 cm measurements, while the ultimate versatility of measuring both absorbance and fluorescence can be accomplished using Take3 or Take3 Trio in a Synergy™ Hybrid or multi-mode reader. Pre-programmed nucleic acid and protein protocols in Gen5™ make quantification fast and easy.



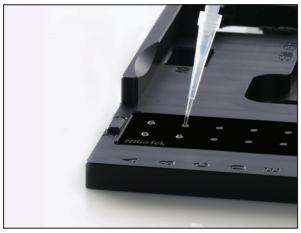
Gen5™ Take3 Trio accommodates up to 48 blanks and samples in a single read.



Quick, concise results display of up to 48 samples with Take3 Trio.

Features:

- 16 (Take3) or 48 (Take3 Trio) microspots for 2 µL samples
- Direct quantification without dilution
- Pre-programmed nucleic acid and protein protocols in Gen5
- Absorbance and fluorescence measurement capability
- Spectral scanning in micro-volume, BioCells or cuvettes
- Easy to clean, low maintenance sample surfaces
- 2 BioCell measurement locations
- Standard cuvette measurement (Take3)



Configurations:

- TAKE3: Sixteen 2 µL samples, 2 BioCells, 1 cuvette
- TAKE3TRIO: Forty-eight 2 µL samples, 2 BioCells

Optional Accessories:

- BioCell™ (p/n 7272051)
- Quartz cuvette with stopper, 10 mm (p/n 48723)

Applications:

- Micro-Volume nucleic acid quantification
- Micro-Volume protein quantification
- In-situ fluorometric protein quantification
- 260/280 and 260/230 protein purity measurements
- Very low volume in-situ BCA assay
- Spectral scan of single or multiple low volume samples
- Fluorescent dye quantification
- Gene Expression assays
- Cell culture measurements
- End point and kinetic assays

Technical Details:

	Take3	Take3 Trio
2 µL sample capacity:	16	48
BioCell capacity:	2	2
Cuvette capacity:	1	
Detection limit:	2 ng/µL dsDNA (spectrophotometric)	2 ng/µL dsDNA (spectrophotometric)
Detection pathlength:	0.5 mm nominal	0.5 mm nominal
Detection modes:	Absorbance and Fluorescence	Absorbance and Fluorescence
Compatible readers:	Cytation, Epoch, Epoch 2, Synergy HTX, Synergy 2 Synergy H1, Synergy Neo2	Cytation, Epoch, Epoch 2, Synergy HTX, Synergy H1, Synergy Neo2
Gen5 interface:	Take3 and Take3 Trio interface available in Gen5 Microplate Reader and Imager Software with pre-programmed protocols for nucleic acid and protein quantification.	
Use and care:	Take3 plates are easily cleaned by simply wiping the slides with laboratory wipes.	

Technical details are subject to change.

Imager & Multimode Reader Peripherals

CO2 & O2 Gas Controllers

The CO_2 and O_2 gas controller has control over CO_2 and O_2 concentrations within the instrument environment to facilitate live cell assays. The controller regulates the environment for pH buffering or to create a hypoxic condition.

Automation of live cell-based assays in microplates allows for high throughput analysis and requires cell-friendly microplate instrumentation. Automated live cell assays enable walk away processes and increased laboratory efficiency.

Imager & Multimode Reader Peripherals

Dual Reagent Injector Module

Dual reagent injector module enables applications that require rapid inject/read functions, like calcium flux assays. Two precision syringes supply rapid injection of 5 to 1000 µL in 1 µL increments directly into the microplate wells inside the reading or imaging chamber.

Injectors are available for Lionheart FX, Cytation, Synergy Neo2, Synergy H1, and Synergy HTX. The flexible dual reagent injector module automates precise reagent additions while saving time in your laboratory.

Imager & Multimode Reader Peripherals

BioTek AutoScratch Accessory & Supplies

BioTek AutoScratch wound making tool automatically creates reproducible scratch wounds in cell monolayers grown in 24- or 96-well microplates for cell migration and invasion studies. AutoScratch automates the sample prep for imaging using BioTek Cytation cell imaging multimode readers and Lionheart automated microscopes.

The Scratch Assay App automates image collection and analysis of wound width, wound confluence and maximum wound healing rate.

Features

- The BioTek AutoScratch wound making tool automatically creates more consistent scratch wounds than manual methods.
- Manifolds for use with 96 well and 24-well plates are included to cover many wound healing and migration assays.
- The Scratch Assay app includes customizable, predefined protocols that calculate results automatically, saving time in setup and data analysis.
- Automatic statistics calculations include wound width, % confluence and maximum healing rate.
- An automated cleaning routine keeps the scratch pins clean and clear of debris, preventing carryover and enabling consistent wounds.

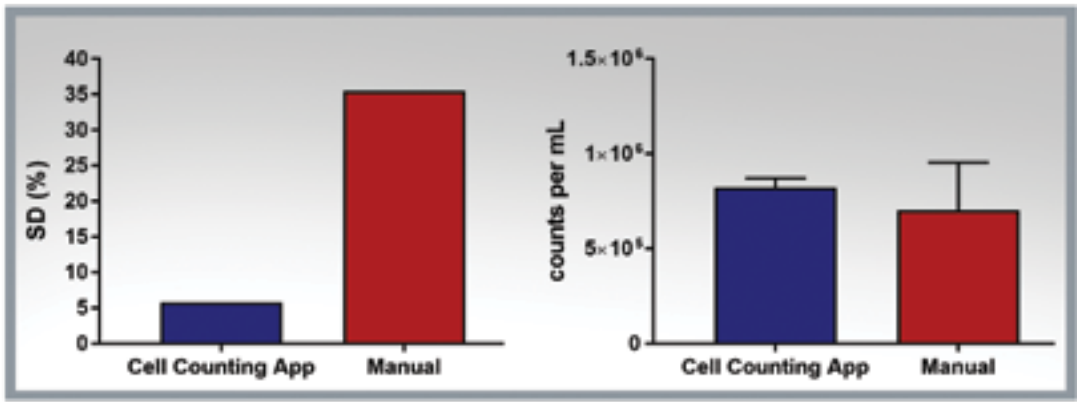
Cell Count & Viability Starter Kit

BioTek's Cell Count & Viability Starter Kit includes everything a researcher needs to count cells and measure viability in a mammalian cell suspension using a BioTek Cytation Cell Imaging Multi-Mode Reader or Lionheart Automated Imager. The kit helps you save time and increases data quality by automating the tedious and error-prone process of mammalian cell counting.

All-inclusive kit

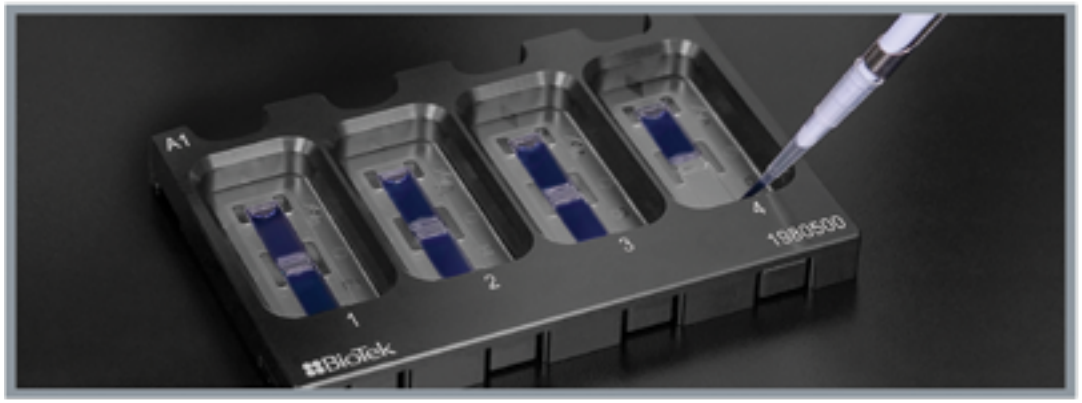
Simple setup in minutes with no training required. The kit includes everything you need to get started with automated cell counting, used with a BioTek Cytation or Lionheart imager. **(1)** 50 disposable cell counting slides, **(2)** 4-slide holder, **(3)** Cell Count & Viability App, **(4)** quick start guide.

Higher quality data



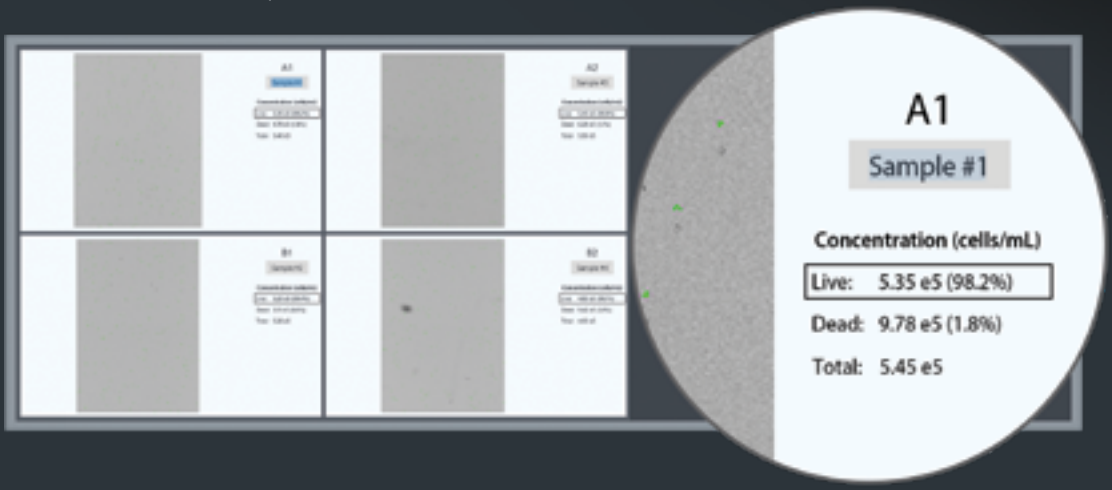
Manual cell counting is tedious and prone to errors. Automating the cell counting process removes human error and increases data quality.

Fast cell count, up to 8 samples per batch



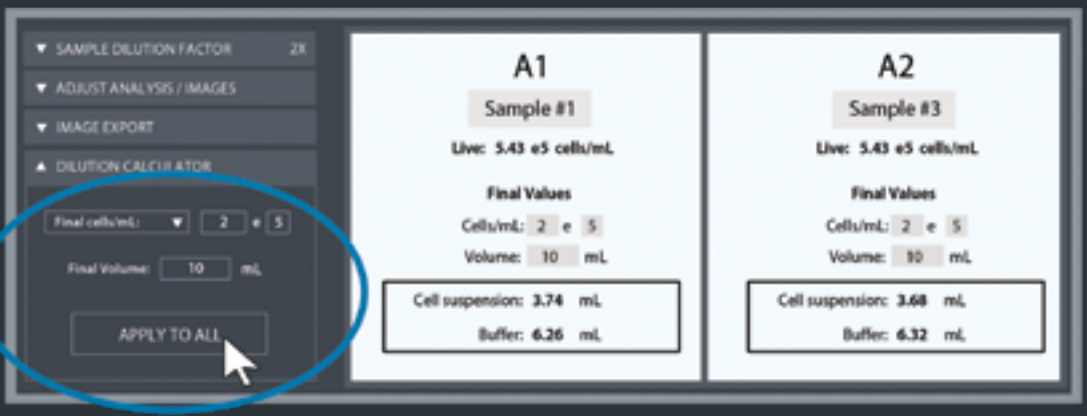
The kit includes an adapter to hold 1-4 cell counting slides, enabling counts and analysis for up to 8 samples per run.

Automatic % live /dead calculation



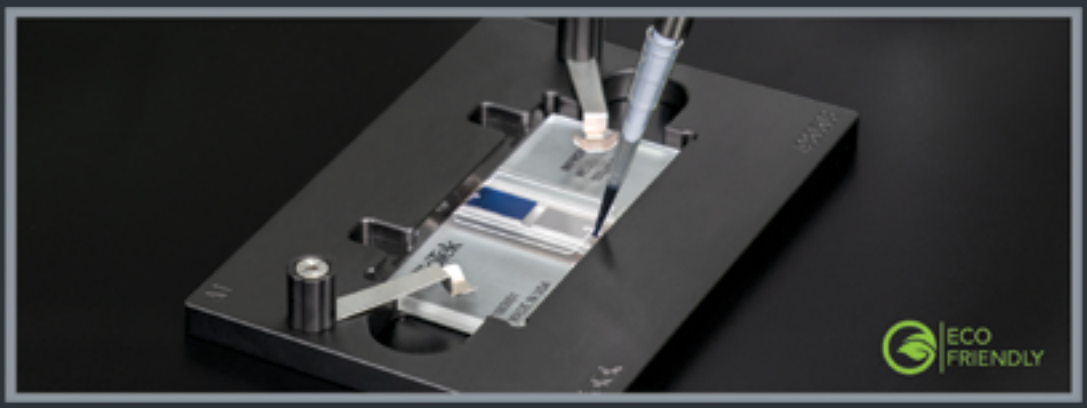
The kit includes trypan blue stain to stain dead cells. Once stained and imaged, the software app automatically calculates the live/dead cell percentage.

Built-in dilution calculator



The Cell Count & Viability App includes a calculator to automatically determine how much sample and media are required to reach a desired cell concentration, to facilitate downstream applications.

Reusable counting slide option



The reusable counting slide and its holder are convenient options for use with the software app, as an eco-friendly alternative to disposables. It's easy to clean for repeated use.

Cell Count & Viability Starter Kit

SYSTEM REQUIREMENTS, ACCESSORIES AND SPARES

Kit contents include:

- Cell Count & Viability App (PN 1980002)
- Box of 50 disposable counting slides and vial of Trypan blue (PN 02853)
- 4-position counting slide holder (PN 1980500S)
- Instructions for use

System Requirements:

To successfully use the Cell Count & Viability Starter Kit, the following are required:

- Cytation 5 Cell Imaging Multi-Mode Reader (with phase contrast) or Lionheart FX Automated Microscope
- Gen5 Image+ v3.09 or higher
- 4x phase objective (PN 1320515)

Part #	Description
GEN5IPLUS	Gen5 Image+ Software, includes features for image processing and analysis.
GEN5IPRIME	Gen5 Image Prime Software, includes features for advanced image processing and analysis.
1320515	4x phase objective, Plan Fluorite WD 17 NA 0.13.
1983001	Re-usable counting slide (no-grid hemocytometer).
1980503	Spare single position counting slide holder (PN 1980503) with instructions for use. For use with reusable counting slide PN 1983001.
02853	Spare counting slides, box of 50. Includes 1.5 mL vial of 0.4% Trypan blue.
1980500S	Spare 4-position counting slide holder (PN 1980500) with instructions for use. For use with disposable counting slides (PN 02853).
1980002	Cell Count & Viability App software

Imager & Multimode Reader Peripherals

Imaging Stage Control Joystick

The joystick controller enables easy, precise maneuvering in and around your sample when used with an Agilent BioTek Lionheart or Cytation imagers.

Imager & Multimode Reader Peripherals

Peltier Cooling Module

The Peltier cooling module promotes a rapid interior cool down after incubated processes. The rapid cooling enables efficient switching between multiple applications without unwanted temperature influences.

For temperature sensitive assays typically run at ambient, or room temperature, the cooling module maintains environmental stability within the Agilent BioTek Cytation instrument. This stability allows < 1 °C rise in ambient temperature, regardless of external and internal temperature fluctuation. Rigorous temperature control gives you confidence in your assay results.

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