

The fully flexible detection platform with smart automation.

Made for biodiscovery, today and tomorrow.



The Spark multimode microplate reader offers solutions for virtually any life science research or drug discovery applications. Researchers can freely configure the reader to their current needs, and Spark is upgradable to access other techniques and features in the future.

Spark is an all-in-one solution for fast spectral scanning, ELISAs and low volume DNA/protein quantification, featuring fast absorbance measurements with a dedicated High Speed Monochromator, together with a cuvette port and the patented NanoQuant Plate $^{\text{TM}}$.

The unique Fusion Optics allows any combination of filters or monochromators on both the excitation AND emission sides for every fluorescence measurement; you no longer have to choose between sensitivity OR flexibility for your assays.

Spark has specifically been designed for cell-based assays. The instrument's bright field cell imaging option with incubator-like environmental control enables long-term experiments and live monitoring of cell growth. This is complemented by the unparalleled multi-color luminescence module, which offers flexibility for virtually any luminescence measurement, including flash, glow, BRET and laser-based Alpha Technology.

Spark's Te-Cool™ module allows the user to set the reader temperature at, or even below, ambient for more accurate and robust results, regardless of the time of day or season.

Smart automated conditional workflows minimize hands-on time and increase reproducibility for long-term experiments, to increase confidence in your data.

Applications

- ELISAs
- Low-volume DNA/RNA quantification
- Nucleic acid labeling efficiency
- Protein quantification
- Reportergene assays
- Homogeneous time-resolved fluorescence (HTRF®)
- Transcreener®
- Dual-Luciferase® Reporter (DLR™)
- Bioluminescence resonance energy transfer (BRET) – including Nano-BRET™
- Cell counting and viability
- Confluence assessments
- Cell migration and wound healing
- Fluorescence* imaging for
 - nuclei counting
 - transfection efficiency
 - cell viability and apoptosis
 - cell roughness

Detection modes

- Absorbance
- including UV/vis spectra
- Fluorescence top and bottom
- including spectra
- Time-resolved fluorescence (TRF)
- including spectra
- Fluorescence Resonance Energy Transfer (FRET)
- Time-resolved fluorescence Resonance Energy Transfer (TR-FRET)
- Fluorescence Polarization (FP)
- Luminescence glow, flash, multi-color, spectra
- AlphaScreen®, AlphaLISA® and AlphaPlex™
- Bright field imaging
- Fluorescence* and brightfield imaging

Additional features

- Absorbance cuvette port
- NanoQuant Plate
- Temperature control (RT+3-42 °C)
- Liquid dispensers with reagent heater and stirrer
- CO₂ and O₂ control
- Evaporation protection (humidity cassette)
- Te-Cool (active temperature regulation from 18-42 °C)
- Integrated lid handling
- QC tools for IQOQ services

*Available with Spark Cyto











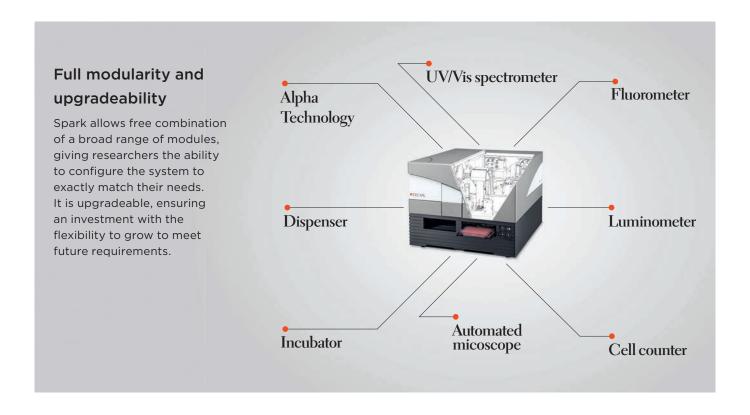


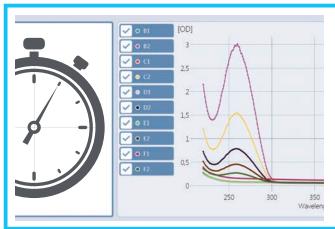




Spark application capabilities

	GENOMICS AND PROTEOMICS	MICROBIOLOGY	CELL-BASED ASSAYS	DRUG DISCOVERY
Heating	•	•	•	•
Absorbance	•	•	•	•
Cuvette	•	•		•
Fluorescence filter top/bottom		•		
Fluorescence monochromator top/bottom	•		•	
Fluorescence Fusion Optics top/bottom				•
Fluorescence variable bandwidth			•	•
Fluorescence polarization				•
Fluorescence dichroic mirrors			•	•
Luminescence	•	•	•	•
Luminescence multicolor and scanning			•	•
Alpha Technology				•
Lid Lifter™		•	•	•
Cell counting and imaging		•	•	•
CO ₂ control				•
CO ₂ + O ₂ control		•	•	
Te-Cool™ cooling module				•





Absorbance UV/vis Spectrometer

With its High Speed Monochromator, Spark provides unparalleled wavelength accuracy for DNA and protein analysis:

- Full absorbance spectrum data from 200 to 1,000 nm in less than five seconds
- Excellent accuracy in the deep UV range (230-260 nm) for improved DNA/RNA analysis
- An OD range from 0-4 ensures good linearity, requiring fewer dilutions and less manual pipetting

Fluorescence

Spark's unique Fusion Optics offer a free choice of filters or monochromators, not just in the same instrument, but in the same measurement. This eliminates any compromise between sensitivity and flexibility, and is especially beneficial for assay development. All optical modules are available as standard or enhanced versions, with full upgradeability.

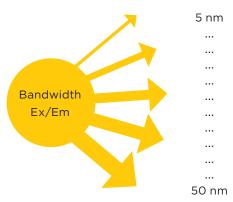
- **High sensitivity across the spectral range** The high performance of the PMT used for fluorescence detection delivers exceptional sensitivity over the complete spectral range, from green dyes to red dyes.
- **Sensitivity** Combining QuadX Monochromators with dichroic mirrors gives the Spark reader industry-leading sensitivity. These mirrors reduce unwanted noise, particularly for fluorophores exhibiting narrow excitation and emission spectra. Choose from three built-in dichroic mirrors, or even choose a user-selectable mirror.
- Full wavelength flexibility The Premium QuadX Monochromators offer unparalleled wavelength accuracy and precision, as well as flexible bandwidth selection. In combination with the system's dichroic mirrors, this ensures enhanced flexibility and filter-like performance for assay development and screening.

Fluorescence polarization

• Spark's unique Fusion Optics allow flexible set-up of FP experiments using any combination of filter- or monochromator-based optics

Automated cell-based experiments

Spark overcomes the typical loss in sensitivity associated with bottom reading of cell-based assays using a lens-based system which guides the light to a focal point on the cells. In combination with cell confluence measurements, it enables fully automated, parallel monitoring of cell growth and fluorescence signal intensities while the cells are incubated inside the measurement chamber.



Variable bandwidth improves sensitivity for highly demanding FRET assays by allowing excitation and emission bandwidths separately.



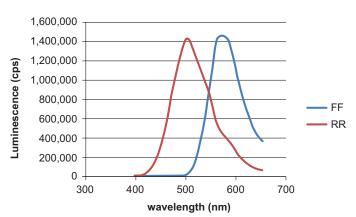
User-selectable deep blocking dichroic mirror increases sensitivity for fluorophores with narrow excitation and emission spectra.



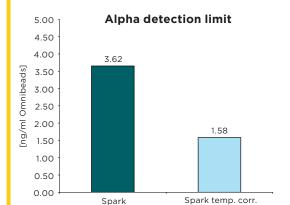
Free choice of filters OR monochromators in the very same measurement.

Luminescence

- Spark offers standard or multi-color monochromator measurements using 40 user-selectable filters. This enables high sensitivity scanning from 390-660 nm.
- A dedicated single photon counting PMT gives excellent sensitivity over a dynamic range of 10° without compromising other detection modes.
- Dedicated fibers for each plate format (96 to 1,536 wells) minimizes crosstalk and gives luminometer-like performance.
- With the injector module, you have unprecedented freedom for luminescence applications, including glow, flash, multi-color, scanning and BRET



Emission spectral scan of Renilla (RR) and Firefly (FF) luciferases recorded with Spark.



Alpha Technology

Spark is equipped with a high performance laser excitation source and IR sensor for well-by-well temperature correction, ensuring better sensitivity, uniformity and linearity for Alpha Technology assays, such as

- AlphaScreen
- AlphaLISA
- AlphaPlex

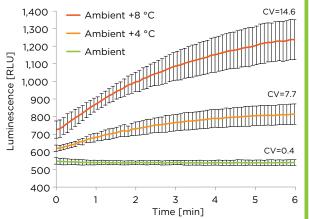
SparkControl™ includes pre-determined filter settings for AlphaScreen, AlphaLISA and AlphaPlex, as well as user-selectable settings for future Alpha Technology applications.

Improved temperature control with Te-Cool

A stable temperature is a prerequisite for reliable results. Temperature gradients can occur across a microplate, leading to poor precision and variability.

When you are performing enzymatic assays – such as luciferase assays – Alpha Technology, or kinetic assays in live organisms, you need precise cooling to ensure optimal performance.

Spark's patent-pending Te-Cool module allows you to perform assays at your specified temperature in the reader for long periods, even below ambient temperature.



Enzymatic assays are temperature sensitive. A luminescence assay was measured kinetically over a time course of 10 min. Best results with lowest CV were obtained when setting Spark at a constant ambient temperature with Te-Cool.

Spark - your research partner for cell-based assays

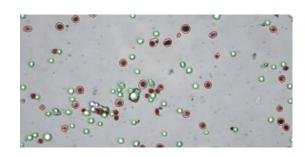
Bright field imaging

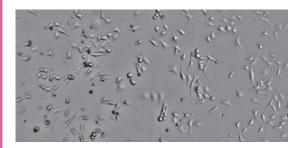
Spark's affordable bright field imaging optics offers a 4x objective with laser-based autofocusing. This system can perform image acquisition and confluence determinations in microplates, or cell counting applications using Tecan's disposable Cell Chip. A Live Viewer option in SparkControl offers microscope-like functionality.

Label-free cell counting and fast viability analysis

Bright field imaging with disposable Cell Chips can be used for automated, label-free counting of a broad range of cell sizes and types. It offers:

- Accurate and reproducible cell counting, with flexible area selection for greater sensitivity
- Predefined, one-click applications for determination of cell number, size distribution or viability
- Easy export of cell images for visual confirmation
- Trypan blue-based staining for life/dead cell counts





Take a last look before starting your assay!

Defined positions within a Cell Chip or microplate well can be viewed and saved with 4x magnification using the Live Viewer. This allows for

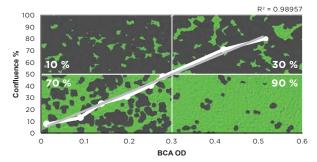
- Microscope-like functionality
- Fast and easy quality control of your cells

Automated cell imaging and confluence measurements

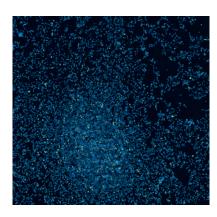
With Spark, it is possible to:

- Automatically image cells
- Measure confluence in a well
- Inject a compound or measure GFP once a user-defined cell confluence is reached

Thus, the system provides more reliable results.



The growth of HeLa cells at various confluence levels and the corresponding increase of protein content measured using a BCA assay protocol.



Fluorescence* imaging

Spark Cyto is the first live cell plate reader for cytometry applications. This is achieved by combining three elements:

- A whole well fluorescence imaging system that can collect information from all cells inside the well, from 6- to 384-well formats
- Real-time experimental control (REC) that automatically activates a procedure as soon as a specific data value is reached.
- The flexibility of a high end multimode plate reader with environmental control

Key applications include:

- Nuclei counting
- Cell viability and cell death
- Cell roughness

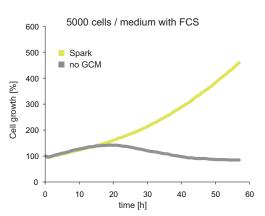
- GFP transfection efficiency
- Apoptosis

More information can be found in the Spark Cyto brochure.

Maintain stable culture conditions and improve cell growth

A patented integrated Gas Control Module (GCM $^{\text{\tiny M}}$) features automated control of CO $_2$ and O $_2$ partial pressures inside the reader chamber, offering:

- Stable long-term cell culture environments
- Improved cell viability and extended experimental times without adversely affecting results
- Optimization of gas levels and mixtures with independent regulation of CO₂ and O₂ partial pressures
- Software-controlled, automated adjustments for real-time modulation of gas partial pressures during a run



Comparison of cell proliferation in the Spark reader with integrated GCM and a standard microplate reader.



Evaporation protection to enhance cell viability

Built-in evaporation protection enhances live cell kinetic assays for better reproducibility and more reliable data. A patented Humidity Cassettes:

- Reduces evaporation in standard microplates
- Minimizes edge effects
- Enableslongterm live kinetic studies without the need to switch to dedicated and costly microplate types.

Minimize evaporation and contamination with automated microplate lid handling

The patented Lid Lifter™ allows automated lid handling within the reader, enabling incubation, measurements and injections without manual intervention. With the GCM, advanced temperature control and the Humidity Cassette, Spark turns into a reader/ incubator hybrid with flexible workflow automation capabilities.

Benefits include:

- Increased reproducibility and reduced hands-on time
- Lower risk of user exposure when working with pathogens
- Luminescence measurements in lidded plates
- Reduced background noise for absorbance measurements in lidded plates





Reagent dispenser with heating and stirring

Integrated injectors enhance application flexibility for fast reaction times, such as flash luminescence or Ca²⁺ release assays. Spark injectors offer a heating and stirring option for reagent storage. This is especially beneficial for cell-based applications, enabling:

- Minimization of cold shock caused by reagent addition
- Automated dispensing of viable cells
- Prevention of precipitation of high concentration compound solutions

Spark-Stack™

This versatile and field-upgradeable integrated stacker module is designed to reliably automate plate loading, unloading and re-stacking for non-lidded ANSI/SLAS-format microplates from six to 1,536 wells. Spark-Stack is equipped with removable dark covers to protect light sensitive assay, such as AlphaLISA, AlphaScreen, AlphaPlex and GFP-transfected cells.

Spark-Stack highlights:

- Set of short/long plate magazines with a capacity of up to 30/50 plates per run
- Delayed Startfunction in SparkControl enables pre-incubation of plates at room temperature inside the plate magazines
- Optional integrated barcode scanner for process control
- Light protection elements are provided for the plate magazines to enable benchtop automation of light-sensitive assays





Format flexibility Increase your format flexibility and throughput with cuvettes, Cell Chips, NanoQuant Plate and ANSI/SLAS microplates up to 1,536 wells



Empower your research with related products

NanoQuant Plate™

Allows parallel quantification and analysis of up to 16 nucleic acid or protein samples, in volumes as little as 2 μ l. For convenience and optimal data quality, the NanoQuant Plate is the only low volume plate on the market that is 100 % calibration free, saving you time and giving you consistent reliable performance – unlike alternative solutions. In addition to standard absorbance measurements, the NanoQuant Plate is compatible with fluorescence top measurements – for example, for Picogreen® or Ribogreen® assays – improving your DNA/RNA detection limits.



QC tools and IQOQ services

Confidence throughout the whole lifecycle. Tecan's quality control packages help you to fulfill regulatory requirements for your Tecan microplate readers in an efficient, cost-effective way.



MultiCheck™ - QC package

Gain a new level of confidence in your laboratory equipment with an accurate, cost-effective and near effortless solution. The MultiCheck QC package is designed to enable a rapid function check for Tecan multimode readers. It comprises the MultiCheck software package and an advanced QC plate, and supports all major reading modes, including FI, TRF, FP, absorbance and luminescence.



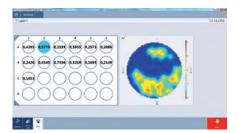
Filters and filter slides

Investing in a filter-based system gives you a cost-effective solution for sensitive absorbance and fluorescence assays. Tecan's wide range of filters ensures that you will be able to support your wide range of assays, while attaining peak performance.





Fast, simple instrument operation is at your fingertips with SparkControl's touch-optimized, intuitive interface. Engineered to simplify your daily laboratory tasks, SparkControl offers:



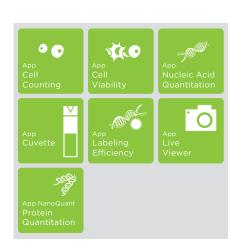
High definition well scans provide a complete picture of the cell population in each well for more accurate signals, even with inhomogeneous cell layers. The software also provides a qualitative image of the cell distribution.



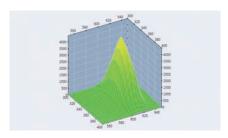
SparkControl makes it **easy to adjust** parameters during a run, including **environmental conditions** such as temperature (even below ambient) and the CO₂ and O₂ levels inside the reader.



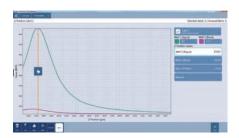
Open kinetics - Free up your reader during long-term kinetic measurements. Pause/resume a kinetic run and allow your peers to access the reader in between. Increase productivity while running long-term cell-based assays.



One-click applications streamline your workflows, getting you from sample to results faster than ever before.

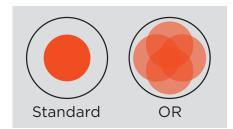


3D scanning accelerates assay development by providing simultaneous excitation and emission scans. This can help to identify changes in the spectral properties of fluorescent probes or characterize unknown fluorescent samples more quickly and easily.

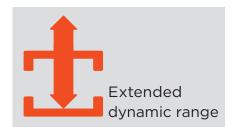


Automated z-focus adjustment enhances the sensitivity of top-reading fluorescence intensity and fluorescence polarization modes, significantly improving the quality of results. No matter what your plate volume, sample volume or well shape, this unique feature makes it easy to set up your reader for optimum performance with varying assay parameters.





Optimized fluorescence bottomreading with Tecan's unique Optimal Read (OR) function. OR ensures very low CVs by performing multiple measurements on spatially separated spots arrayed across each well.



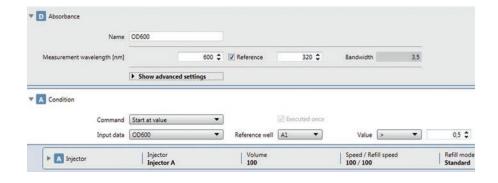
Detect even very low signals with the Spark **extended dynamic range.**This function automatically adjusts the gain settings during a measurement run, allowing the detection of very low signals without compromising on sensitivity. All results are automatically correlated and displayed within one single data set.



Safeguard your kinetic assays using automated gain regulation to avoid fluorescence measurements running into saturation. Measurements with different gain settings are then automatically correlated, allowing evaluation of the entire dataset.

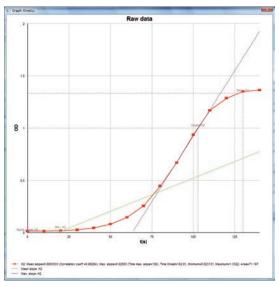
Smart automation

SparkControl excels in workflow automation with conditional kinetics. Combining an OD600 measurement with an injection at a specific absorbance value increases walkaway automation. Let SparkControl work for you, freeing up more time for important research.

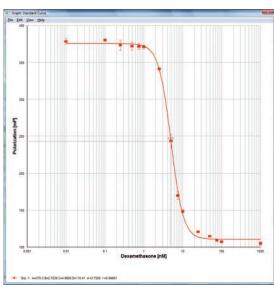




SparkControl Magellan is a data analysis package providing powerful data reduction tools for numerous detection modes.



SparkControl Magellan makes it easy to perform complete kinetic data enalysis including the calculation of slopes, onsets and enzyme kinetics.



Designed to simplify the user experience, SparkControl Magellan conveniently handles all dilution series and ICx calculations.

SparkControl Magellan offers users an array of tools designed to enhance functionality, simplicity and security.

- Ideal for microplate-based applications such as ELISAs, end-point assays, kinetic assays, ratiometric measurements, multi-label measurements and 3D scanning
- Rapidly perform everything from data reduction and curve fitting to the calculation of kinetic parameters, such as Michaelis-Menten constants
- Video tutorials and example files simplify operation
- Plate definition editor allows creation of customized plate geometry files

The software provides a suite of sophisticated functions including:

- Full qualitative and quantitative EIA analysis
- All major curve fittings, including point-to-point, linear regression, non-linear regression, polynomial, cubic spline, Akima, logit-log, four- and five-parameter fits
- Convenient handling of dilution series and ICx calculations
- General data import and export options, as well as automated import of sample ID lists
- Kinetic data analysis with calculation of slopes, onsets and enzyme kinetics
- Spectral calculations to provide rapid background correction, curve smoothing, wavelength selection, peak identification and 3D scanning

SparkControl Magellan Tracker offers all the functionalities necessary for compliance with FDA regulation 21 CFR part 11 for electronic records and signatures, while still providing all the advantages of SparkControl Magellan Standard.



At Tecan, we work continually to ensure that our instruments meet your application requirements. We offer a broad range of consumables tailored to your application and laboratory needs.



Cell Chips are packaged individually and come in 50 pcs/box.

Cell Chips for cell counting

Tecan's innovative Cell Chips minimize sample preparation, offering greater application flexibility and opening up new cell counting possibilities for cells in suspension.

- Accurate, reproducible cell counting, with flexible area selection for greater sensitivity
- One-click analysis of cell number, size distribution and viability
- High precision cell counting, even at low concentrations
- Automated replicate processing for multiple samples in disposable Cell Chips
- Export images for visual confirmation

Lid Lifter discs

The Lid Lifter is a convenient solution that helps researchers to increase workflow automation to decrease hands-on time for long-term incubation and in-between measurements, and further reduce sample evaporation. Simply add the sample to a Tecan microplate, cover with a lid with a Lid Lifter disc attached, place in the Spark reader and incubate for as long as required. The Spark Lid Lifter will remove the lid from the plate for readings at specified time intervals.



Lid Lifter discs come in 50 pcs/box.

Fluent® Automation Workstation for cell-based assays

Tecan's commitment to cell biology research goes beyond the capabilities of Spark. The revolutionary Fluent Automation Workstation for cell-based assays is designed to optimize cell-based workflows, automating everything from pipetting and reagent distribution to incubation and detection.

For more information, please visit www.tecan.com/fluent



Typical performance values+

Fluorescence - enhanced

Light source High energy xenon flash lamp

Spectral range Ex: 230-900 nm

Em: 280-900 nm

Wavelength accuracy Ex: <0.5 nm; Em: <0.5 nm

Wavelength reproducibility <0.5 nm

Bandwidth Adjustable from 5-50 nm
Optical mirrors 50%, 510, 560, 625 nm built-in;

410, 430, 458, 593, 660 nm user-selectable dichroics

Well scanning Up to 100 x 100 data points

FI (fluorescence intensity) Limit of detection¹

Filter - top $\le 8 \text{ amol/well } (10 \text{ µl; 1,536 wells})^1$ Fusion - top $\le 15 \text{ amol/well } (10 \text{ µl; 1,536 wells})$ Mono - top $\le 20 \text{ amol/well } (10 \text{ µl; 1,536 wells})$

Filter - bottom s180 amol/well (10 μ l; 1,536 wells) Fusion - bottom s200 amol/well (10 μ l; 1,536 wells) Mono - bottom s220 amol/well (10 μ l; 1,536 wells)

FP (fluorescence polarization)²

Spectral range300-850 nmPrecision Filter≤1.25 mP²Precision Fusion≤2.0 mPPrecision Mono≤2.5 mP

TRF (time-resolved fluorescence)3

Limit of detection Filter \le 0.5 amol/well (20 μ l; 384 sv wells)³ \le 0.6 amol/well (20 μ l; 384 sv wells) \le 0.7 amol/well (20 μ l; 384 sv wells)

Fastest read time

384-well plate (FI) ≤22 sec 1,536-well plate (FI) ≤34 sec

Fluorescence - standard

Light source Dedicated xenon flash lamp

Spectral range Ex: 230-900 nm

Em: 280-900 nm

Wavelength accuracy Ex: <1 nm; Em: <2 nm

Wavelength reproducibility <1 nm

Bandwidth fix @ 20 nm

Optical mirrors 50 %; 510 nm dichroic
Well scanning Up to 100 x 100 data points

FI (Fluorescence intensity) Limit of detection¹

Filter - top ≤25 amol/well (100 µl; 384 wells)¹
Fusion* - top ≤35 amol/well (100 µl; 384 wells)
Mono - top ≤50 amol/well (100 µl; 384 wells)

Filter - bottom ≤500 amol/well (200 µl; 96 wells)
Fusion - bottom ≤700 amol/well (200 µl; 96 wells)
Mono - bottom ≤800 amol/well (200 µl; 96 wells)

FP (Fluorescence polarization)²

Spectral range300-850 nmPrecision Filter≤1.5 mP²Precision Fusion≤2.5 mPPrecision Mono≤3.0 mP

TRF (time-resolved fluorescence)

Limit of detection Filter \$4.0 amol/well (100 μ l; 384 wells)³ Limit of detection Fusion \$6.5 amol/well (100 μ l; 384 wells) Limit of detection Mono \$10 amol/well (100 μ l; 384 wells)

Fastest read time

96-well plate (FI) ≤13 sec 384-well plate (FI) ≤30 sec

Absorbance - standard and enhanced

Light source Dedicated xenon flash lamp Spectral range 200-1,000 nm OD range 0-4 OD Scan speed (200-1,000 nm) ≤5 sec Wavelength accuracy <0.3 nm Wavelength reproducibility ≤0.3 nm Wavelength ratio accuracy (260/230) < 0.08 Wavelength ratio accuracy (260/280) < 0.07 Precision @ 260 nm <0.2 % Accuracy @ 260 nm < 0.5 % <1 ng/μl Limit of detection (nucleic acids)

Luminescence - standard and enhanced

Spectral range 370-700 nm

Luminescence (glow) -

Limit of detection⁴ ≤225 amol/well

(25 μl; 384 sv wells)⁴

Luminescence (flash) -

Uniformity Z'value

Limit of detection⁵ ≤12 amol/well

(55 μl; 384 wells)⁵

Dynamic range >9 orders of magnitude 38 spectral filters; Multi-color luminescence

> OD1, OD2, OD3 attenuation filters

AlphaScreen - standard and enhanced

Limit of detection <100 amol/well bio-LCK-P6:

20 μΙ

<2.5 ng/ml Omnibeads⁷;

20 μΙ <3.0 % >0.9

Fastest read times8 ≤2 min (384-well plate)

≤1 min (96-well plate)

ANSI/SLAS plate formats for all read modes standard and enhanced

1-384 wells (standard): 1-1.536 wells (enhanced):

NanoQuant Plate; Cell Chip; cuvettes; Roboflask; Tecan microplates.

Spark-Stack is compatible with 6- to 1,536-well plates.

Cell counting

4-90 μm Size range Counting accuracy +/-10 % (10-30 μm) Counting reproducibility <10 % (10-30 µm) 1x10⁴ -1x10⁷ cells/ml Cell concentration Imaging speed inc. data reduction <30 sec/sample Number of samples/run up to 8 samples

Automated cell imaging

Illumination High power LED Image Bright-field

Objective 4x

Autofocus Laser based Optical resolution >3 um

Read Speed 1 image/well (96-well plate);

<5min

Gas Control Module

Adjustable concentration range - CO₂ 0.04-10 % (vol.) Adjustable concentration range - O₂ 0.1-21 % (vol.) Concentration accuracy - CO₂ <1% (vol.) Concentration accuracy - O₂ <0.5 % (vol.)

Reagent injectors

0.5 ml; 1 ml; 2.5 ml Syringe sizes Pump speed $100-300 \,\mu l/sec$

Injection volume 5-2,500 µl; step size: 1 µl

Dead volume <100 ul

≤0.5 % at 450 µl Injection accuracy and precision

Temperature control ambient +3-42 °C

Uniformity <0.5 °C

Te-Cool cooling module

Temperature range +18-42 °C

Cooling power max 12 °C below ambient

Shaking

Linear orbital double-orbital: variable amplitudes and frequencies

2) FP detection limit @ 1 nM fluorescein

3) Detection limit for europium

6) (PE# 6760620; P-Tyr-100 assay kit) 7) (PE# 6760626D; Omnibeads)

8) Including temp. correction

Spark multimode reader is for Research Use Only.

+ Specifications are subject to change. Performance values represent the average observed factory tested values. For product specifications refer to operators manual.

^{*}Fusion Optics: a combination of filter and monochromator on the excitation and/or emission side

¹⁾ Detection limit for fluorescein

⁴⁾ Detection limit for ATP (144-041 ATP detection kit SL (BioThema))

⁵⁾ Detection limit for ATP (ENLITEN® Kit)

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