

Synergy™ LX Multi-Mode Reader

BioTek Synergy LX 多功能微孔板检测仪

BioTek Synergy LX 多功能微孔板检测仪荧光和发光模块采用优化的滤光片式光学元件进行，以实现最佳灵敏度和直接检测，以防止光损失，实现出色的精度。

易于更换检测专用荧光滤片立方体使运行不同的检测方法变得快速轻松。

吸光度检测模块采用的是氙气闪光灯和单色器元件，可实现从低紫外到可见光范围的连续波长选择。

高质量的光学设计，可确保在吸收光、荧光和发光检测模式下获得出色的数据。

可升级的设计使实验室能够在将来添加其他检测模式。

Synergy LX的触摸屏用户界面直观，编程简便，可即时数据显示以及输出到USB闪存驱动器，打印机或Gen5软件，使Synergy LX成为多功能分析工作站。

Synergy LX是进行包括核酸和蛋白质定量、ELISA、BCA、Bradford和细胞活性等在内的多种常规微孔板检测的理想选择。

特征:

- 经济实惠的多模式多孔板读板仪
- 支持许多常见的终点检测，包括核酸和蛋白质定量、ELISA、BCA和Bradford检测以及细胞活力检测
- 采用Take3板进行微量核酸和蛋白质定量
- 200 nm - 999 nm的连续波长紫外-可见光检测(in 1nm increments)
- 高性能、高阻断率滤光片 (high-blocking filter) 元件用于荧光 (fluorescence) 和发光 (luminescence) 检测
- 彩色触摸屏，用于快速编程和操作以及即时数据显示
- 检测结果输出至USB闪存驱动器、打印机或功能强大的Gen5软件



Take3 Micro-Volume Plate

典型应用类型:

- ELISA
- Fluorescence ELISA
- Nucleic Acid Quantification (A_{260} and fluorescence-based)
- Nucleic Acid Purity Assessment (A_{260}/A_{280})
- Gene expression (luminescence and fluorescence)
- Cell Viability Assays (absorbance MTT, luminescence ATP, various fluorescence-based)
- Protein Quantification

仪器应用配置方案:

SLXA	Synergy LX with monochromator-based absorbance from 200 nm to 999 nm.
SLXF	Synergy LX with filter-based top fluorescence and luminescence.
SLXFA	Synergy LX with monochromator-based absorbance from 200 nm to 999 nm, filter-based top fluorescence and luminescence.
SLXATS	Synergy LX with monochromator-absorbance from 200 nm to 999 nm and touchscreen interface.
SLXFTS	Synergy LX with filter-based top fluorescence and luminescence, and touchscreen interface.
SLXFATS	Synergy LX with monochromator-based absorbance from 200 nm to 999 nm, filter-based top fluorescence and luminescence, and touchscreen interface.

Note: All Synergy LX configurations include linear, orbital and double-orbital shaking.

可选配置附件:

- Take3 Micro-Volume Plates
- Gen5™ Secure (for 21 CFR Part 11 compliance)
- Fluorescence Test Plate
- Absorbance Test Plate
- Luminescence Test Plate
- Product Qualification Package
- Printer



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

Phone: 802-655-4040 • Toll-Free: 888-451-5171
Outside the USA: 802-655-4740

www.biotek.com

技术规格:

基本参数

Detection mode:	UV-Vis absorbance, fluorescence intensity, luminescence
Read method:	End point (onboard software) End point, kinetic, area scanning, absorbance spectral scanning (under Gen5 control)
Microplate types:	UV-Vis absorbance: 6- to 384-well (onboard software) Fluorescence intensity and luminescence: 96- and 384-well (onboard software) All modes: 6- to 384-well (under Gen5 control)
Other labware:	Take3 Micro-Volume Plates (onboard software) Take3 and Take3 Trio Micro-Volumes Plates (under Gen5 control)
Shaking:	Linear, orbital, double-orbital
Software:	End point protocols (onboard software) Full data analysis and reporting (under Gen5 control)

吸光度

Light source:	Xenon flash lamp
Detector:	Photodiode
Wavelength selection:	Monochromator
Wavelength range:	200 – 999 nm, in 1 nm increments
Monochromator:	
Bandwidth:	≤5 nm
Wavelength accuracy:	±2 nm
Wavelength precision:	±0.2 nm (standard deviation)
Dynamic range:	0 to 4.0 OD
Resolution:	0.001 OD (onboard software) 0.0001 OD (under Gen5 control)
Pathlength correction:	Yes (under Gen5 control)
Optical density:	
Accuracy:	<1% at 2.0 OD <3% at 2.5 OD
Linearity:	<1% from 0 to 2.5 OD
Repeatability:	<0.5% at 2.0 OD
Stray light:	0.03% at 230 nm
Reading speed (kinetic):	96 wells: 12 seconds 384 wells: 23 seconds

荧光强度 (Fluorescence Intensity)

Light source:	Halogen
Detector:	PMT
Wavelength selection:	Bandpass filters
Wavelength range:	320 – 700 nm (low noise PMT) 320 – 850 nm (red-shifted PMT)
Dynamic range:	>6 decades
Sensitivity:	Fluorescein 2 pM
Reading speed (kinetic):	96 wells: 24 seconds 384 wells: 76 seconds

发光 (Luminescence)

Dynamic range:	>6 decades
Sensitivity:	10 amol ATP

仪器物理参数

Connectivity:	One USB 2.0 ports for computer control Two USB 2.0 ports for printer connection and USB flash drive (touchscreen configurations only)
Dimensions:	15" H x 15" W x 15" D (with touchscreen) (38.1 cm H x 38.1 cm W x 38.1 cm D) 12" H x 15" W x 15" D (30.5 cm H x 38.1 cm W x 38.1 cm D)
Weight:	≤27 lbs (12.3 Kg)
Power:	External 24VDC power supply compatible with 100-240 volts AC. 50-60Hz. 60W maximum consumption.

Regulatory

CE and TUV marked. RoHS compliant. IVD configurations are available.

Technical details are subject to change.