

ELx800™ Absorbance Microplate Reader

The ELx800™ is a compact, robust microplate reader ideally suited for applications within the clinical and life science research laboratory. When interfaced with BioTek's Gen5™ software, the ELx800 applications are expanded to include kinetic and well area scanning measurements in microplates from 6-well to 384-well. When space or budget are limited, the ELx800 offers extensive on-board software, complete with multiple curve fit options, data transformations, cutoff and assay validation calculations. The outstanding performance of this hardworking microplate reader and its proven reliability makes the ELx800 an unbeatable value for your laboratory.

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Features:

- Reliable and robust design
- 5 filter capacity
- Multiple plate formats
- Extensive onboard data analysis
- Multiple curve-fitting options
- Assay and control validation
- Data transformation formulas
 - Cutoff and call criteria



Applications:

- ELISA assays
- Enzyme activity

Models:

ELx800: Available for 6- to 384-well microplates and extended dynamic range

See Web site or price list for complete model listings and descriptions.

Optional Accessories:

- Gen5™ Data Analysis Software
- Gen5™CL Custom Clinical Assay Software
- Gen5™ Secure (for 21 CFR Part 11 Compliance)
- Absorbance Test Plate
- Deskjet or Inkjet Printer
- Product Qualification Package

Specifications:

	<u>ELx800</u>	<u>ELx800UV</u>	<u>ELx800NB</u>
Microplate Type			
6- to 96-well:	•	•	•
6- to 384-well and Terasaki Plates:	•	•	•
Bio-Cell™ Compatible:	•	•	•
System Features			
Reading Modes:			
Endpoint; kinetic (under computer control)	•	•	•
Dimensions:			
16.5" D x 15" W x 7" H (41.9 x 38.1 x 17.8 cm)	•	•	•
Weight:	18.5 lbs (8 kg)	18.5 lbs (8 kg)	18.5 lbs (8 kg)
Onboard Software: 55 user-definable programs:			
Gen5™ Compatible:	•	•	•
Filter Wavelength Selection:			
Wavelength Range:			
400-750 nm	•	•	•
340-750 nm	•	•	•
Filter wheel capacity / included:	5/4	5/5	5/4
Dynamic Range:			
0 to 3.0 OD	•	•	•
Bandpass: 10 nm:	•	•	•
Read Channels/Reference:	1/1	1/1	1/1
Reading Speeds (secs):			
Rapid Mode: 96 wells	30 single	30 single	30 single
Optical Performance (typical)			
Tungsten Halogen Lamp:			
•	•	•	•
OD Accuracy:			
< 1 % at 2.0 OD	•	•	•
OD Linearity:			
< 3 % at 3.0 OD	•	•	•
OD Repeatability:			
< 0.5 % at 2.0 OD	•	•	•
Resolution 0.001 OD:	•	•	•

*Specifications subject to change



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ELx808™ Lector de Microplacas en Absorbancia



Sistemas ópticos de alta calidad y un diseño robusto, son las dos principales características que describen al ELx808™ Lector de Microplacas en Absorbancia. El ELx808™ puede ser usado con cualquier ensayo colorimétrico en el rango de los 340 nm hasta 900 nm. Este instrumento ofrece un incomparable sistema control de temperatura de 4 zonas (4-Zone™), que provee una excelente estabilidad para aquellos ensayos sensibles a variaciones de temperatura, como las pruebas para determinación de endotoxinas, y ensayos de crecimiento bacterianos de larga duración. De manera opcional, el software para análisis de datos Gen5™, puede controlar de manera más fácil y eficiente el instrumento, para desarrollar una gran variedad de aplicaciones

en microplacas. El Gen5™ permite programar y analizar de manera sencilla, ensayos de punto final, ensayos cinéticos y análisis de pozos, pero cuando hay limitaciones de espacio, o no hay una computadora para realizar una interfase, el software abordo, ofrece un paquete de reducción de datos extenso, con capacidad para analizar reacciones de punto final, cinéticas, realizar curvas y otros análisis varios.



Características:

- El control de temperatura 4-Zone™ provee de una reproducibilidad mejorada, para aquellos ensayos sensibles a cambios de temperatura
- Mediciones cinéticas rápidas, con intervalos cortos de hasta 6 segundos, y opciones para realizar análisis cinéticos múltiples.
 - Diseño óptico superior incorpora elementos que eliminan el solapamiento de señales entre canales.
- Modalidades de lectura de punto final, cinética y análisis de pozo.
- Extenso programa abordo para recolección y análisis de datos.

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Aplicaciones:

- Ensayos ELISAs / EIAs
- Pruebas para Determinación de Endotoxinas
- Actividad enzimática
- Estudios de crecimiento bacteriano
- Ensayos cinéticos rápidos

Modelos:

ELx808: Microplacas de 96 pozos, agitación y rango de 380-900nm

ELx808IU: Microplacas de 96 pozos, agitación, incubación hasta 50°C y rango de 340-900nm

Ver la lista de precios o sitio en internet para una lista completa de modelos y descripciones.

Accesorios Opcionales:

- Software de Análisis de Datos Gen5™
- Gen5™ Secure (para cumplimiento de norma 21 CFR Part 11)
- Bio-Celda patentada de cuarzo, de 1cm de paso (Bio-Cell™)
- Adaptador para Bio-Celdas (Bio-Cell™)
- Placa de pruebas de Absorbancia
- Impresora Deskjet o Inyección de Tinta
- Lámpara para ELx808™ (todos los modelos)
- Paquete de Calificación de Producto

Especificaciones:

Tipos de Microplacas

96-pozos: •
Compatible con Bio-Celdas (Bio-Cell™): •

Características del Sistema

Métodos de Lectura:
Punto final, cinético, análisis linear •

Control de Temperatura:
Desde ambiente +4°C hasta 50°C: •

Uniformidad de temperatura:
± 0.5°C a 37°C •

Agitación: •

Dimensiones:
16" A x 15.5" L x 8.75"A
(40.6 x 39.4 x 22.2 cm) •

Peso: 30 lbs (13.6 kg) •

Software abordo: 55 programas definibles por el usuario: •

Compatible con software Gen5™: •

Filtros Selectores de Longitud de Onda:

Rangos de longitudes de onda:

380-900nm •

340-900 nm •

Capacidad en rueda de filtros / Incluidos: 6/4 •

Rango dinámico:

0 a 4.0 DO •

Ancho de Banda: 10 nm •

Canales de Lectura / Referencia:

Velocidades de lectura (segundos): 8/1 •

Modalidad Normal: 96 pozos:

Longitud de onda simple/dual 12 / 20 •

Modalidad Rápida: 96 pozos:

Longitud de onda simple/dual 8 / 13 •

Modalidad Cinética Rápida:

Longitud de onda simple 6 •

Desempeño Óptico (típico)

Lámpara de Tungsteno Halógeno: •

Exactitud DO:

< 1 % a 2.5 DO •

< 2 % a 3.5 DO •

Linealidad DO:

< 1 % a 2.5 DO •

Reproducibilidad DO:

< 0.5 % a 2.5 DO •

< 1.5 % a 3.5 DO •

Resolución 0.001 DO: •

*Especificaciones sujetas a cambios.



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ELx50™ Microplate Strip Washer

The ELx50™ Microplate Strip Washer's compact footprint conceals a powerhouse of washing capabilities unsurpassed in its class. Exceptional dispense precision and evacuation efficiency can be utilized for both 96- and 384-well strip and plate washing.

Multiple Washers in One

The ELx50 is a 3-in-1 solution for 96-well plate formats automating the wash steps of ELISAs, magnetic bead assays and polystyrene bead assays. The ELx50 can also be equipped with BioTek's Dual-Action™ manifold allowing independent control of dispense and aspiration manifolds

in both 96- and 384-well formats. As a welcome upgrade from manual processing, the ELx50 provides an all-inclusive wash solution offering consistent performance and unattended operation.

Syringe Drive Fluid Delivery

As a self-contained and programmable washer, the ELx50 allows for complete control of precise fluidic delivery from the gentle dripping of a simple squeeze bottle to the full force of pressure delivery systems. Comprehensive onboard software makes creating protocols quick and intuitive.

Automated Liquid Level Sensing

Liquid Level Alert™ allows the convenience of continuous monitoring for both supply and waste bottles. At the beginning and end of a wash protocol, the liquid level is verified to ensure an adequate buffer remains to complete a wash. Sufficient storage capacity in the waste bottle is also verified.

Typical Applications:

- ▶ ELISAs
- ▶ Cell-based assays
- ▶ Magnetic bead assays
- ▶ Polystyrene bead assays
- ▶ ELISPOT assays
- ▶ Multiplex assays



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Specifications

General	
Assays	ELISA Cell-based assays Magnetic bead, polystyrene bead (model dependent) <ul style="list-style-type: none"> • Multiplex assays • Bead-based ELISA Filtration-to-waste processes (model dependent) Protein arrays
Separation	Biomagnetic separation, vacuum filtration (model dependent)
Microplate types	96- and 384-well plates (model dependent) Low profile and standard height Solid and filter bottom (model dependent) <ul style="list-style-type: none"> • Filter pore sizes 0.45 µm to 1.2 µm
Shaking	Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second)
Soak time	Programmable in minutes and seconds up to 60 minutes
Magnet	High strength 96-well format Flat <ul style="list-style-type: none"> • Flat-bottom well - beads pulled to band across well bottom • Round-bottom well - beads pulled to button at well bottom Ring - beads pulled to 4-zone ring at well bottom
Safety/convenience/maintenance	Waste sensing, fluid detection (optional) Aerosol cover Overflow protection Pre-programmed maintenance routines
Onboard software	Create, edit or run multiple protocols
Washing	
Manifold types	96-well washing: 8-tube (1x8) manifold 12-tube (1x12) manifold 96-/384-well washing: Dual-Action 16-tube (1x16) manifold
Washing speed	Solid bottom plates: 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: ≤130 seconds Filter bottom plates: Variable, based on wash parameters

Fluid delivery	One positive displacement syringe drive
Vacuum filtration	Selectable vacuum levels (final at 30 seconds): 0.45 µm 96-well plates: Low -91 mmHg Medium -150 mmHg High -313 mmHg 1.2 µm 96-well plates: Low -95 mmHg Medium -155 mmHg High -299 mmHg Vacuum filtration time range: 1 - 180 seconds
Volume range	25 - 3,000 µL/well (configuration dependent) Selectable in 1 µL increments
Buffer selection	Automatic switching for up to 3 wash buffers (configuration dependent)
Flow rates	1 - 9
Wash cycles	1 - 10
Dispense precision	≤3% CV
Residual volume	Solid bottom plates: ≤2 µL/well Filter bottom plates: Average increase weight of plate ≤1.2 g after dispensing 300 µL to 0.45 µm plate, filtration 30 seconds, low vacuum, blotted
Sterilization	Chemical: 70% ethyl or isopropyl alcohol and 0.5% sodium hypochlorite solution
Supply bottle	2 L
Physical Characteristics	
Power	100 - 240 Volts AC. 50/60 Hz.
Dimensions	14"W x 16"D x 6.5"H (35.6 x 40.6 x 16.5 cm)
Weight	22 lbs (9.8 kg)
Regulatory	
Regulatory	CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.

Specifications subject to change. Performance values represent the average observed-factory test values.