

EL301™ Manual Microplate Strip Reader



BioTek's EL301™ Microwell Strip Reader is a portable, rugged, single/dual wavelength photometer designed to measure and interpret the absorbances of microwell strip assays.

Flexible enough to accommodate flat or round bottom 8-well, 12-well, and 2 x 8-well strips, the EL301 provides an affordable alternative for all your qualitative assays, as well as the precision, accuracy, and data processing capability required for quantitative clinical tests.

The on-board microprocessing system allows you to choose from four internal user-defined computer programs, each accessed with the touch of a pad:

- **Single or Dual Wavelength:** Display absorbances
- **Linear Regression:** Enter up to 5 standards to determine sample concentrations.
- **Limit Thresholds:** Define cutoff values to determine \pm results of absorbances or concentrations.
- **Difference:** Determine delta absorbances.

Well locations, absorbance values, and results are displayed on the large LCD display. Standards and blanks may be carried over from strip to strip within each program. Data may be stored in the EL301's memory, printed out, and sent to a computer for more detailed analysis. Up to 12 plates (1152 wells) can be stored in memory.

- Automatic well location
- 4 internal user-defined analysis programs
- Automatic average blanking
- Large 2-line, 16-character LCD for user prompting and data entry
- Internal memory stores up to 12 plates of absorbance values
- RS-232 and parallel printer interfaces
- Battery or line powered

● Models

EL301
Manual Microplate Strip Reader

EL301E
European Manual Microplate Strip Reader (220V)

● Accessories Included

Molded carrier assembly, p/n 3010513
3 strip holders: 1 x 8, p/n 3010515; 1 x 12, p/n 3010516; 2 x 8, p/n 3010517
Lamp assembly, p/n 3010502
Bulb wrenches (2) (call for part number)
Power transformer and cord (call for part number)
Printer cable, p/n 3011509

● Optional Accessories

Battery pack, p/n 3011513
Carrying case, p/n 3012085
1x12 Dynatech Remove-A-Well strip holder, p/n 3010514
EL301 filters, p/n 3014---- (plus wavelength)

- 405, 410, 415, 450, 490, 510, 515, 540, 550, 560, 570

Wolf Laboratories

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Specifications

General

Detection method	Absorbance
Read method	Endpoint
Microplate types	8-, 12-, and 2x8-well strips
Software	KCjunior (optional)
Onboard software	4 user-definable programs

Absorbance

Light source	Tungsten Halogen bulb
Wavelength selection	Filters
Wavelength range	380 to 700nm
Bandpass	10 nm
Dynamic range	0 to 2.5 OD
Resolution	0.001 OD
Filter wheel capacity	2 (filter paddle)
Filters supplied	405, 490 nm
OD linearity	+/- 1% from 0.000 to 2.000 Abs
OD repeatability	+/- 1% +/- 0.005 Abs from 0.000 to 2.000 Abs

Physical Characteristics

Power	100-240 V _{AC} 50/60 Hz
Dimensions	6" D x 11" W x 3" H (15.2 x 27.9 x 7.6 cm)
Weight	2.5 lbs (1.2 kg)

Regulatory

Regulatory	UL listed power adapter
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Specifications subject to change.