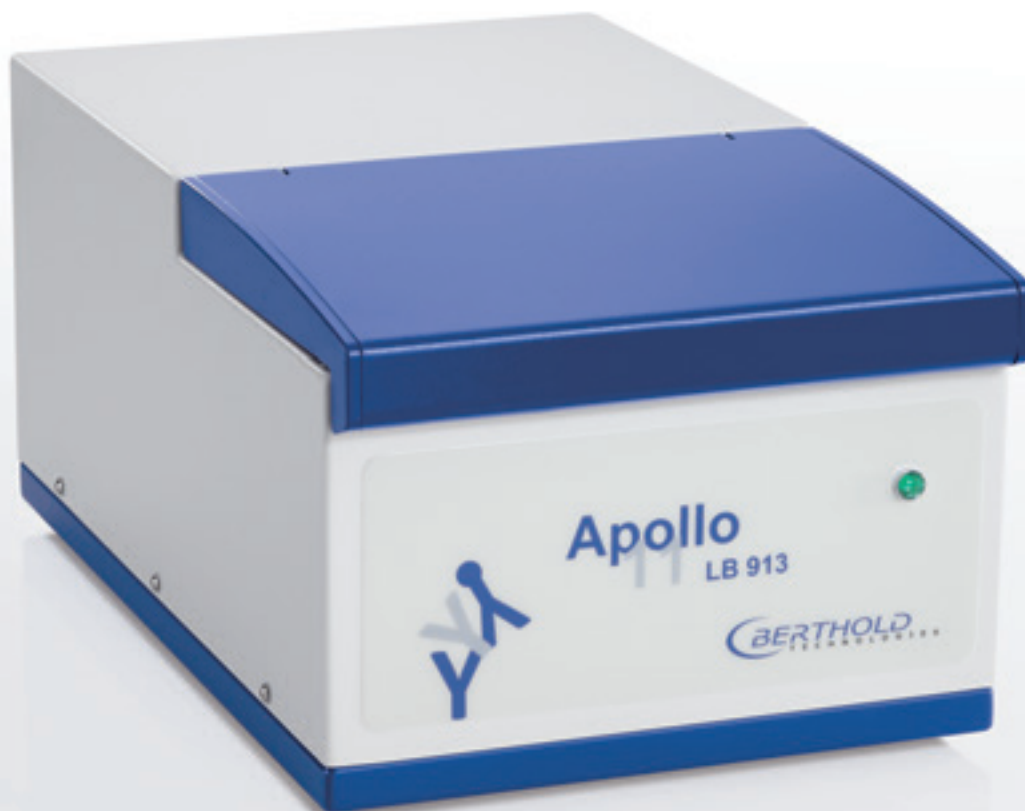




Apollo 11 LB 913
Microplate Absorbance Reader*

detect and identify



Apollo 11 LB 913

Microplate Absorbance Reader*

Based on the proven technology of its predecessors the Apollo 11 sets new targets for microplate absorbance readers by introducing its new unlimited life-time LED light source technology.

The Apollo 11 is ideally suited for all common ELISAs, assays for monitoring enzyme activities and protein and DNA quantification assays.

The easy-to-use self-explaining one-view PhotoRead software lets you get started with the measurements within seconds.

Outstanding Properties

Auto-Control

The instrument performs auto-check and auto-calibration of the optics and electronics before every measurement.

Large Dynamic Range

The instrument's dynamic range of 3.7 OD is large enough to cover any assay's requirements.

Precision

Precise mechanics, quality optics and the auto-control guarantee unrivalled repeatability of measurements.

Accuracy

Like all Berthold Technologies instruments the Apollo 11 comes to your laboratory checked against a QC test plate. With this reassurance you are able to work with accurate, traceable and comparable results.

Small Footprint

Not very much bigger than a sheet of paper the Apollo 11 saves valuable laboratory space.

One-View PhotoRead Software

All data and all commands for operation are visible within a single window at the same time.

	1	2	3	4	5	6	7	8	9	10	11	12
A	0.001	over	0.185	over	1.487	over	1.992	over	over	over	over	0.000
B	0.001	over	0.184	over	1.489	over	1.993	over	over	over	over	0.001
C	0.001	over	0.184	over	1.489	over	1.996	over	over	over	over	0.002
D	0.001	over	0.184	over	1.490	over	1.994	over	over	over	over	0.001
E	0.002	over	0.184	over	1.490	over	1.997	over	over	over	over	0.001
F	0.006	over	0.183	over	1.491	over	1.994	over	over	over	over	0.001
G	0.002	over	0.184	over	1.491	over	1.995	over	over	over	over	0.001
H	0.001	over	0.183	over	1.490	over	1.991	over	over	over	over	0.001

Pre-installed filters and Applications

4 filters are pre-mounted on the 6 position filter wheel covering most applications. [1]

Reporter Gene Assay

based on β -galactosidases and secreted alkaline phosphatases

DNA Quantification

with the Diphenylamine assay according to Dische

Protein Quantification

traditional Lowry and Bradford methods

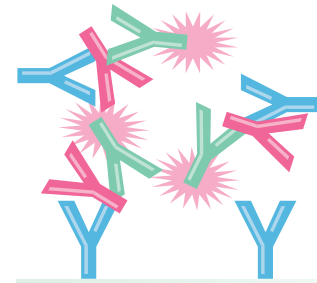
ELISAs and Immunoassays [2]

with horseradish peroxidase and phosphatase labelled antibodies

405 nm	Alkaline Phosphatase (PNPP), β -Galactosidase, Horseradish Peroxidase (ABTS)
450 nm	Horseradish Peroxidase (TMB)
492 nm	Horseradish Peroxidase (OPD)
595 nm	Lowry, Bradford, Diphenylamine DNA assay, reference wavelength

[1]

[2]



Apollo11 LB913

Technical Specification and Order Information

Detection unit	Photo diode
Excitation Source	LED, spectral range 400 – 700 nm
Accuracy	better 1 % and 0.005 OD (@ 0 to 2.5 OD)
Precision	better 0.5 % and 0.005 OD (@ 0 to 2.5 OD)
Dynamic Range	0 – 3.7 OD
Microplate Formats	12 to 96 well Plate heights 15 to 20 mm (96 well only with PhotoRead software)
Reading Speed	20 s per wavelength
Shaking	4 amplitudes, 4 speeds
Interface	USB
PC Operating System	Pentium Processor, 500 MHz (or better), CD ROM drive, display 1024 x 768 (or better), USB
Regulations	CE
Power Supply	110 - 240 V, 50/60 Hz, 20 VA External auto-ranging mains adaptor
Temperature range	Storage: 0–40 °C Operation: 15–35 °C

Humidity	10 – 80 % non-condensing
Dimensions	210 x 281 x 160 mm (W x D x H)
Weight	3 Kg

	Order Number
Apollo 11 incl. PhotoRead software equipped w/ 405, 450, 492 and 595 nm filters	57990
Additional filters on request	
Microplates, 96, black, clear bottom, cell culture	38840
Absorbance QC test plate	43513

BERTHOLD TECHNOLOGIES reserves the right to implement technical improvements and/or design changes without prior notice.

BERTHOLD TECHNOLOGIES GmbH & Co. KG

P.O. Box 100 163 · 75312 Bad Wildbad · Germany
Phone: +49 7081 177-0 · Fax: +49 7081 177-100
E-mail: bio@berthold.com · www.berthold.com/bio