

Absorbance 96

A Personal, Compact Plate Reader





✓ FEATURES

0.9kg
Weight

7x smaller
Than the smallest
comparable reader



Powered
by USB



Plug &
Play

Absorbance 96 – Innovative Compactness

The Absorbance 96 is a uniquely designed microplate reader for assays in 96-well format. By far the most compact reader on the market, the footprint of the reader is almost as small as the plate itself. Despite its size, this plate reader delivers precise and accurate results at an affordable price. Together with proprietary software, the Absorbance 96 is ideal for a variety of applications, extending from ELISA to protein and cell-based assays.

Utilize this plate reader with our catalog of nearly 300 ELISA kits, which includes sensitive, specific assays for relevant markers of cell viability, signaling pathways, steroid and peptide hormones, inflammation, and more. In addition to traditional antibody pair-based immunometric assays, our scientists specialize in the particularly challenging production of high-specificity competitive ELISAs for detection of small molecules. Enzo has over 20 years of assay development experience and state-of-the-art manufacturing facilities to ensure time-tested reproducibility.



Usability

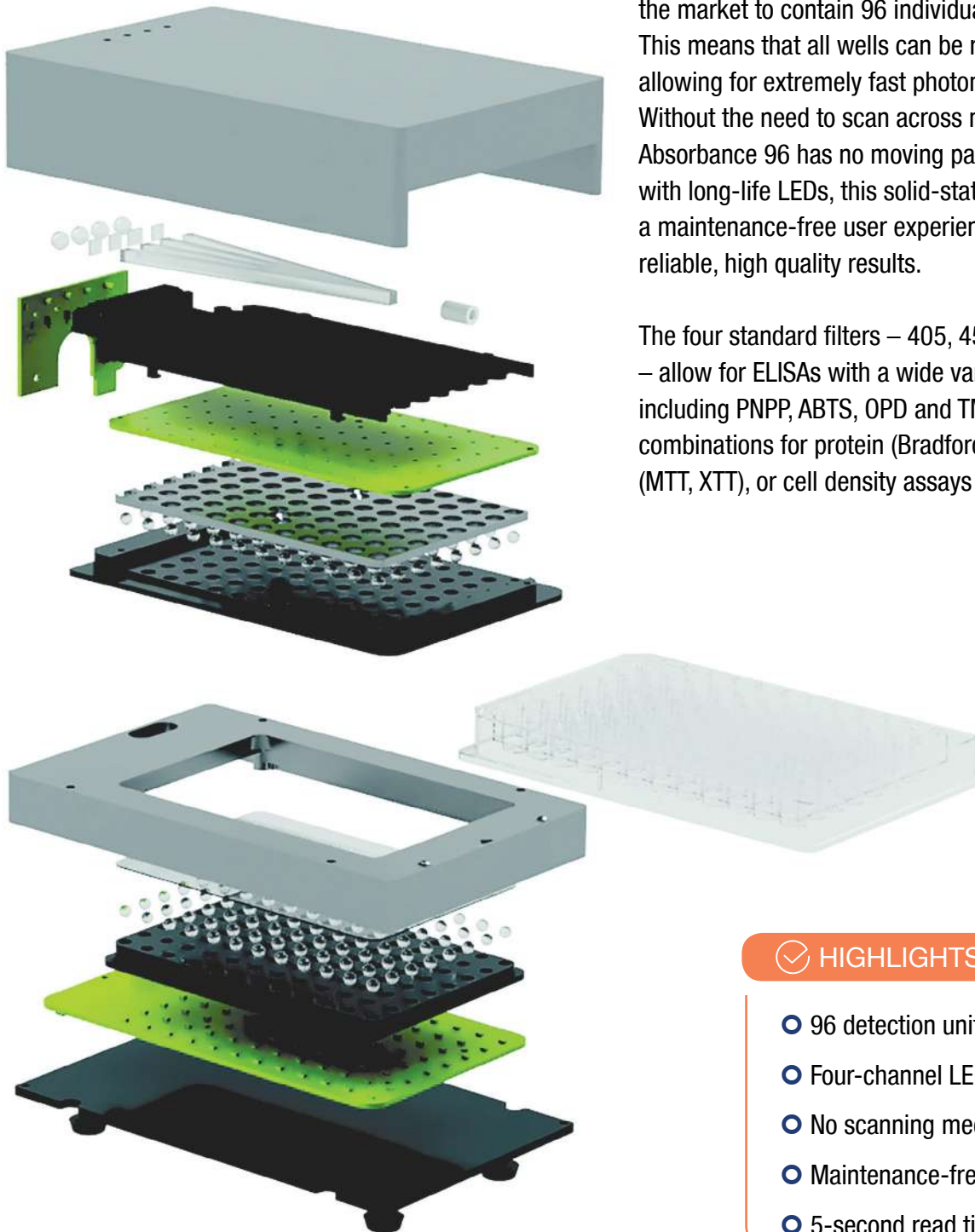
The goal was to develop a reader that would simplify the workflow in the laboratory. This philosophy of intuitive operation was translated into the Absorbance 96. The unique open design, in combination with the small size of the reader, leads to an entirely new user experience. A simple USB connection provides both the power supply and access to user-control software, which itself functions via plug-and-play technology. Easily transported within – and between – different workspaces and laboratories, the Absorbance 96 fits into every lab, saving bench space and providing unprecedented flexibility.

APPLICATIONS

- ELISAs – TMB, PNPP, ABTs, OPD
- Protein Assays – Bradford, BCA, Lowry
- Cell-based Assays – MTT, XTT, Cell Density



Advanced Technology



The Absorbance 96 is the first microplate reader on the market to contain 96 individual detection units. This means that all wells can be read simultaneously allowing for extremely fast photometric measurements. Without the need to scan across multiple wells, the Absorbance 96 has no moving parts. In combination with long-life LEDs, this solid-state design provides a maintenance-free user experience and ensures reliable, high quality results.

The four standard filters – 405, 450, 492, 620 nm – allow for ELISAs with a wide variety of substrates including PNPP, ABTS, OPD and TMB. Other filter combinations for protein (Bradford or BCA), cell-based (MTT, XTT), or cell density assays can also be provided.

✓ HIGHLIGHTS

- 96 detection units for fast reading
- Four-channel LED optics
- No scanning mechanics
- Maintenance-free
- 5-second read time capability

Software



The Absorbance 96 software is as flexible as the reader itself. It can be used on multiple devices and supports Windows as well as macOS. With plug-and-play technology, simply connect the Absorbance 96 and start your assay.



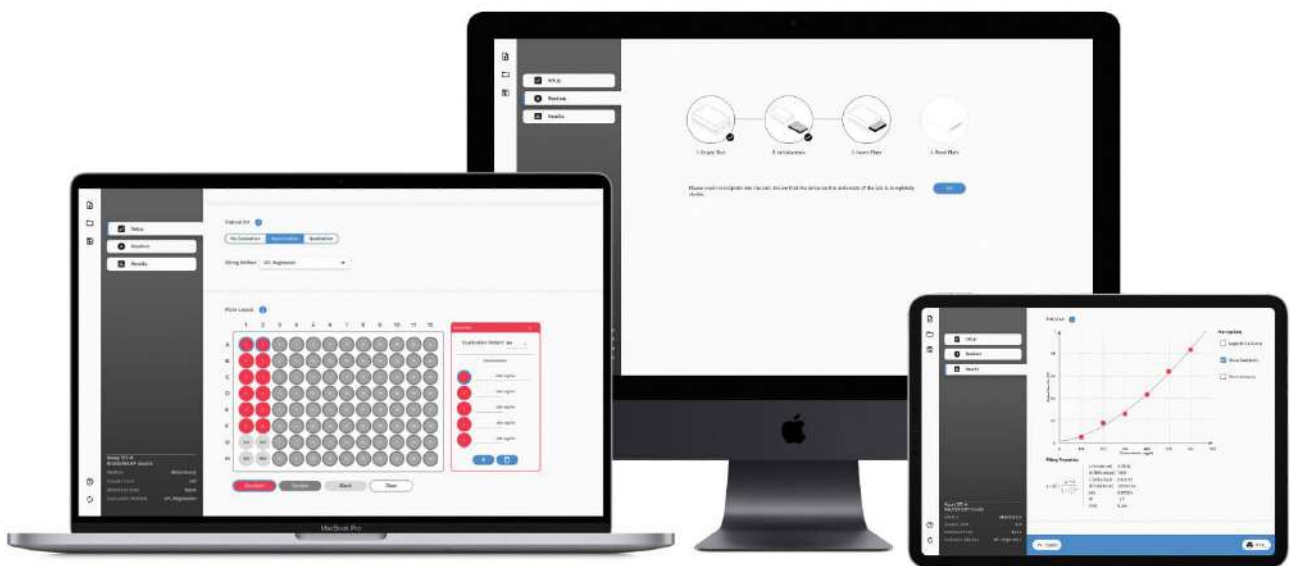
Windows



macOS

✓ MAIN FEATURES

- Endpoint and kinetic assays
- Quantitative and qualitative evaluation
- Custom protocols and reports
- Unlimited access across different devices



Pair with Quality ELISA Kits

We offer a large variety of immunoassay kits in both immunometric and competitive assay formats compatible with the Absorbance 96 Plate Reader. As scientists and manufacturers of kits, we understand the critical nature of your research. Each kit is put through rigorous testing to ensure high precision, accuracy, sensitivity, and specificity. You can be confident that you will obtain reproducible results, day-after-day and lot-after-lot.

- **Consistent** – strict quality control guidelines ensure reproducible results, lot-after-lot
- **Trusted** – reliability highlighted in peer-reviewed publications for three decades
- **Flexible** – adaptable to automated equipment for high-throughput systems

EASY ANALYSIS

Absorbance 96 protocol files are available to download for selection of our ELISA kits.

Cyclic Nucleotides

The most sensitive colorimetric ELISA kits for detection of cAMP and cGMP, key second messenger signaling molecules.

Cyclic AMP Complete
Cyclic GMP Complete
Cyclic AMP Direct (Intracellular)
Cyclic GMP Direct (Intracellular)
Cyclic AMP (Extracellular)
Cyclic GMP (Extracellular)

Neuroscience

High-specificity, sensitive assays for biomarkers of neurodegeneration and neural signaling.

24(S) Hydroxycholesterol
Dopamine
Serotonin
Survival Motor Neuron (SMN1)
APP Δ C31

Programmed Cell Death

Quantify critical cell death pathway proteins. The perfect complement to our CELLESTIAL[®] cell-based assays.

p62 (Sequestosome 1)
Bax
Bcl-2
Cytochrome C
Survivin
XIAP

Hormones

Sensitive assays for steroid and peptide hormones that regulate stress, reproduction, metabolism, cardiovascular physiology, and more.

Peptide	Steroid
Angiotensin	Aldosterone
Bradykinin	Corticosterone
Endothelin-1	Cortisol
Gastrin	DHEA
GLP-1	17 β -Estradiol
Insulin	Estriol
LVV-Hemorphin	Progesterone
Oxytocin	Testosterone
Proinsulin	25(OH) Vitamin D
Prolactin	
Substance P	
Vasopressin	

Monoamine
Dopamine
Histamine
Serotonin

Heat Shock & Oxidative Stress

The definitive collection of ELISA kits for heat shock and oxidative stress.

HSP27
HSP60
HSP70 & HSP70 High Sensitivity
HSP90
Grp75
Grp78
Grp94
Heme Oxygenase-1
DNA Damage (8-OHdG)

Immunology

Broad portfolio of sensitive, high-specificity ELISA kits for inflammation and immunological studies.

Adiponectin	IL-33
CD40/CD40L	Leptin
CRP	LTB ₄
Cysteinyl Leukotrienes	Methotrexate
FasL	Nampt
12(S)-HETE	NGAL
15(S)-HETE	Osteoprotegerin
Histamine	8-iso-PGF _{2α}
13(S)-HODE	6-keto-PGF _{1α}
IFN- γ	PGE ₂ FPIA & CLIA
IL-1 β	PGE ₂
IL-2	PGF _{2α}
IL-4	PSA
IL-5	RANKL
IL-6	Resistin
IL-8	SARS-CoV-2 IgG
IL-10	TGF- β 1
IL-12p70	TIMP-1
IL-13	TNF- α
IL-17A	Transferrin
	TXB ₂
	VEGF

Wnt Pathway

Quantify key components of the Wnt pathway critical to cancer, development, bone remodeling, and neurodegeneration.

Dkk-1
 β -catenin

Toxicology

Biomarker detection for assessing response to toxic compounds.

NGAL
KIM-1

Bioprocess

Sensitive ELISA kits for biotherapeutic characterization and residual contaminant detection.

PEGylated Protein
Protein A
HEK293HCP
CHO HCP
E. coli HCP

Specifications

General

Part Number	ENZ-INS-A96
Detection method	Absorbance
Detection mode	Endpoint, kinetic
Microplate types	96-well microplates
Software	Custom software for external computer control

Measurement

Light source	4 x LEDs
Detector	96 x Photodiodes
Wavelength selection	405, 450, 492, 620 nm
Photometric range	0.0–4.0 OD
Linearity	405 nm: $\leq 1.5\%$ (0.0–2.0 OD) ≥ 450 nm: $\leq 1.0\%$ (0.0–2.0 OD); $\leq 1.5\%$ (2.0–3.0 OD))
Accuracy	405 nm: $\leq 1.5\% + 0.010$ OD (0.0–2.0 OD) ≥ 450 nm: $\leq 1.0\% + 0.010$ OD (0.0–2.0 OD) $\leq 1.5\% + 0.010$ OD (2.0–3.0 OD)
Reproducibility	405 nm: $\leq 0.1\% + 0.005$ OD (0.0–2.0 OD) ≥ 450 nm: $\leq 0.1\% + 0.005$ OD (0.0–3.0 OD)
Resolution	0.001 OD
Read time	Down to 5 sec at single wavelength
Data output	USB 2.0 interface with PC

Physical Characteristics

Dimensions	9.6 cm x 15.4 cm x 5.5 cm (W x L x H)
Weight	0.9 kg (2 lbs)
Power	Through USB connection 5V
Power consumption	2.5 Watts
Regulatory	CE marked

Global Headquarters
ENZO LIFE SCIENCES, INC.
Ph: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Ph: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands
& Luxembourg
Ph: +32 3 466 0420
info-be@enzolifesciences.com

France
Ph: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Ph: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Ph: 0845 601 1488 (UK customers)
Ph: +44 1392 825900
info-uk@enzolifesciences.com

For detailed product information visit us online: www.enzolifesciences.com
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