

# Absorbance 96

A Personal, Compact Plate Reader





# 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 ensure time-tested reproducibility.

## ✓ FEATURES

0.9kg  
Weight

7x smaller  
Than the smallest  
comparable reader



Powered  
by USB



Plug &  
Play



# Usability

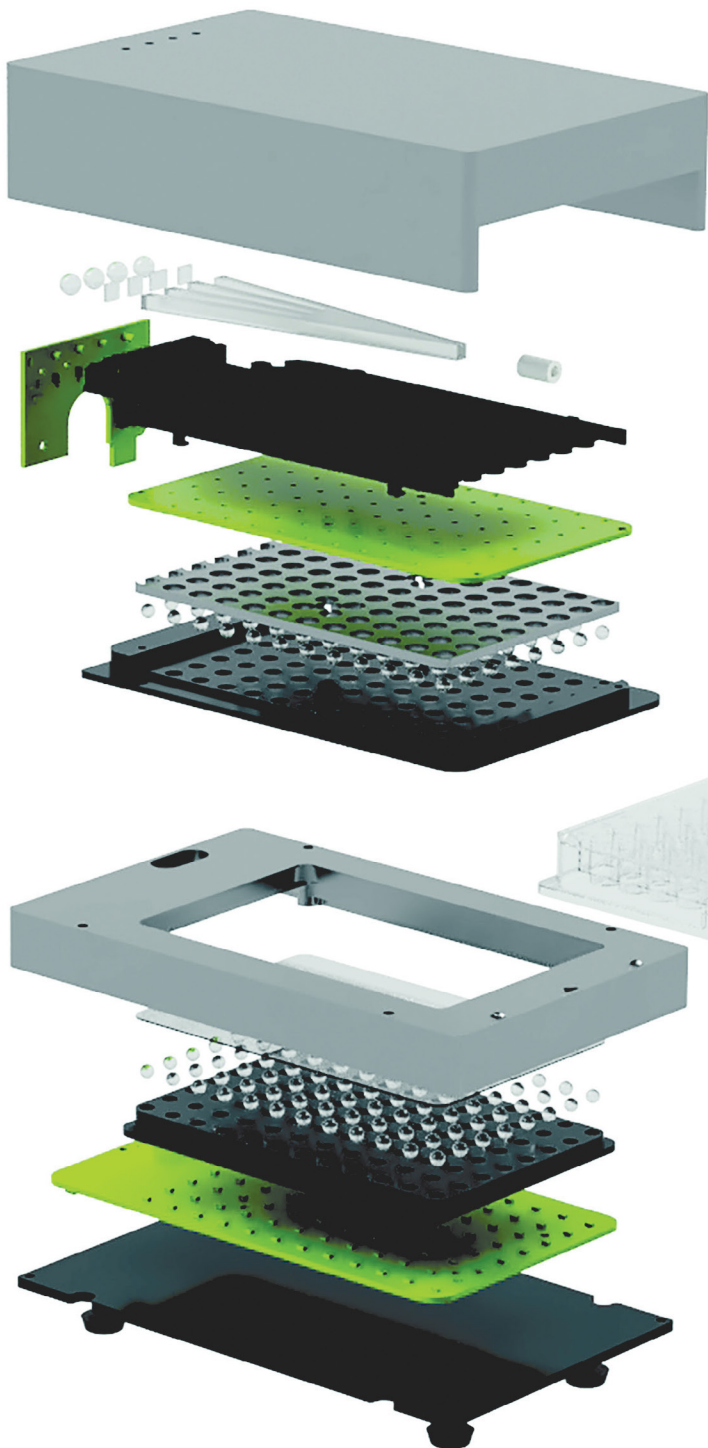
The goal was to develop a reader that would simplify the workflow in the laboratory. This philosophy of intuitive operation was translated into the Absorbance 96. The unique open design, in combination with the small size of the reader, leads to an entirely new user experience. A simple USB connection 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 — in parallel — 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 a wide variety of ELISAs such as 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.



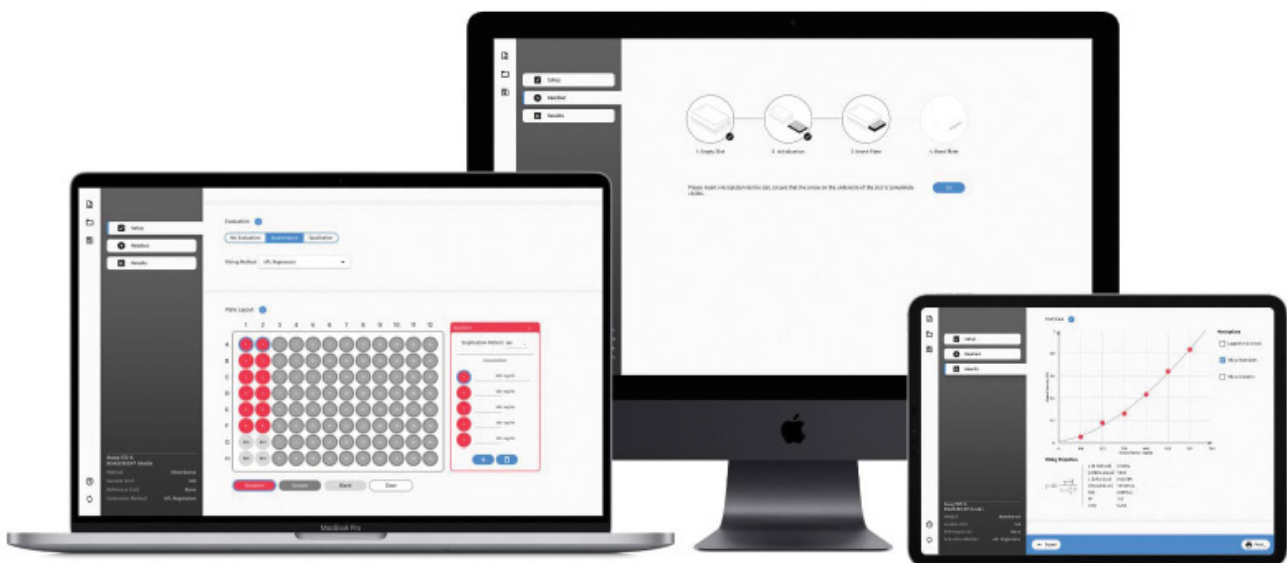
Windows



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 select immunoassay 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)  
APPΔC31

### 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	17β-Estradiol
Insulin	Estriol
LVW-Hemorphin	24(S) Hydroxycholesterol
Oxytocin	FSH
Proinsulin	LH
Prolactin	Melatonin
Substance P	Progesterone
Vasopressin	Testosterone
<b>Monoamine</b>	25(OH) Vitamin D
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  
HO-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 <sub>4</sub>
Cysteinyl	Methotrexate
Leukotrienes	Nampt
FasL	NGAL
12(S) HETE	Osteoprotegerin
15(S) HETE	8-iso-PGF <sub>2α</sub>
Histamine	6-keto-PGF <sub>1α</sub>
13(S) HODE	PGE <sub>2</sub> FPIA & CLIA
IFN-γ	PGE <sub>2</sub>
IL-1β	PGF <sub>2α</sub>
IL-2	PSA
IL-4	RANKL
IL-5	Resistin
IL-6	SARS-CoV-2 IgG
IL-8	TGF-β1
IL-10	TIMP-1
IL-12p70	TNF-α
IL-13	Transferrin
IL-17A	TXB <sub>2</sub>
	VEGF

### 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  
HEK293T  
CHO HCP  
*E. coli* HCP

### Wnt Pathway

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

Dkk-1  
β-catenin

# 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)/ $\geq 450$ 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)/ $\geq 450$ 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)/ $\geq 450$ 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

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