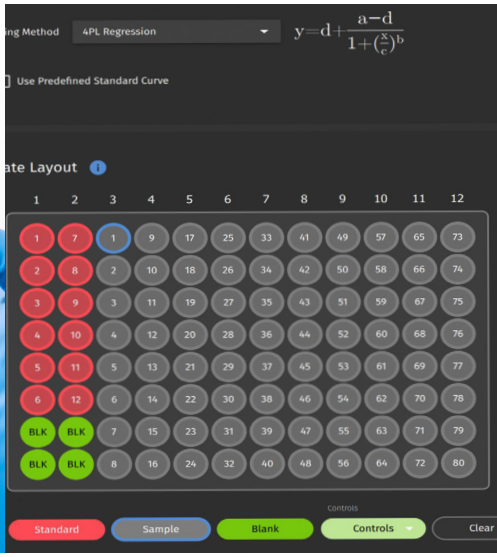


Absorbance 96
ELISA Microplate Reader

The most compact microplate reader on the market for 96-well assays, fully compatible with Hygiena's ELISA plates: take the lab into your hands!

Absorbance 96 is a new category of plate readers with the mission to simplify the workflow in the laboratory. The small size of the reader, in combination with the unique open design, makes it easily portable between laboratories or for field use, leading to an entirely new user experience. Its robust design and USB connection provide both the power supply and access to the analysis software via simple plug-and-play technology, which can be used on multiple devices and supports Windows as well as macOS.

The footprint of the Absorbance 96 is almost as small as the microplate itself, thereby fitting into every lab, saving valuable bench space and providing unprecedented flexibility. Absorbance 96 is compact, while delivering precise and accurate results. Being the first microplate reader with 96 individual detection units, it can simultaneously detect signals in each well, resulting in extremely fast result measurements with no moving parts.

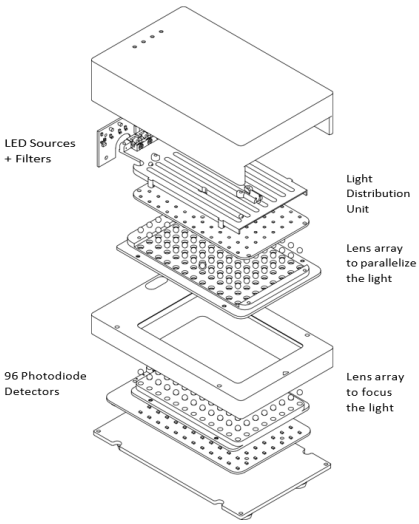
Its portability enables on-site readout, eliminating the need for sample transport. A variety of available wavelength combinations allows for a wide range of endpoint and kinetic assays.

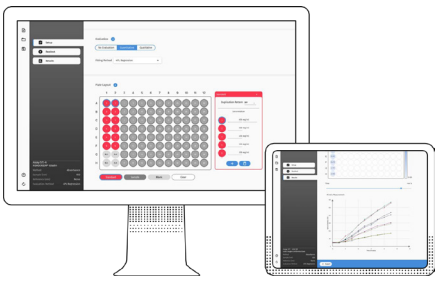
Key Benefits:

- Highly robust with small footprint
- Delivers precise, accurate results
- Fast readout speed (3-5 second read time)
- Powered via USB – just plug and play
- Easy transportation and flexibility
- 7x smaller than the smallest comparable reader
- Maintenance-free user experience
- 96 individual detection units + 4 LEDs enable simultaneous signal detection
- Variety of available wavelength combinations
- Unlimited access across different devices
- No license fee for software use

Specifications

Plate Reader	
Dimensions (w x l x h)	9.6 x 15.4 x 5.5 cm (3.8 x 6.1 x 2.2 in)
Weight	900 g (~ 2 lb)
Microplate Types	96-well microplates
Light Source/Detector	4 x LEDs with 96 Photodiodes
Wavelengths	405, 450, 492, 620 nm/405, 450, 540, 630 nm/492, 562, 605, 650 nm Other filter combinations from 400–1000 nm possible
Photometric Range	0.0 - 4.0 OD
Linearity	405 nm: ≤ 1.5 % from 0.0–2.0 OD; ≤ 3.0 % from 2.0–3.0 OD ≥ 450 nm: ≤ 1.0 % from 0.0–2.0 OD; ≤ 1.5 % from 2.0–3.0 OD
Accuracy	405 nm: ≤ 1.5 % + 0.01 OD (0–2 OD); ≤ 3 % + 0.01 OD (2–3 OD)/ ≥ 450 nm: ≤ 1 % + 0.01 OD (0–2 OD) ≤ 1.5 % + 0.01 OD (2–3 OD)
Reproducibility	≤ 0.5 % + 0.005 OD from 0.0–2.0 OD; ≤ 1 % + 0.010 OD from 2.0–3.0 OD
Resolution	0.001 OD
Read time	Down to 3 seconds at single wavelength
Software Features	
Operating system	Microsoft Windows, macOS
Measurement modes	Endpoint, Kinetic
Evaluation methods	Quantitative, Qualitative
Regression methods	Point-to-Point, Linear, Four Parameter Logistic (4PL), Five Parameter Logistic (5PL)
Export formats	PDF, CSV
Ordering Information	
MCH3005	Absorbance 96 ELISA Plate Reader





ELISA Kits	Kit No.	ELISA Kits	Kit No.
GlutenTox® ELISA Rapid G12	KIT3075	AlerTox® ELISA BLG	KIT3042
GlutenTox® ELISA Competitive G12	KIT3012	AlerTox® ELISA Crustacean	KIT3059
AlerTox® ELISA Coconut	KIT3056	AlerTox® ELISA Fish	KIT3060
AlerTox® ELISA Lupine	KIT3057	AlerTox® ELISA Histamine	KIT3065
AlerTox® ELISA Sesame	KIT3051	Helica® Aflatoxin M1 in Milk (Sensitive)	KIT5000
AlerTox® ELISA Mustard	KIT3058	Helica® Aflatoxin M1 in Milk	KIT5001
AlerTox® ELISA Macadamia	KIT3055	Helica® Aflatoxin M1 in Milk (ULTRA)	KIT5003
AlerTox® ELISA Cashew	KIT3053	Helica® Aflatoxin B1 (Rapid Test)	KIT5004
AlerTox ELISA Soy (STI)	KIT3047	Helica® Aflatoxin B1 Low Matrix	KIT5006
AlerTox® ELISA Walnut	KIT3052	Helica® Total Aflatoxin	KIT5005
AlerTox® ELISA Peanut	KIT3048	Helica® Total Aflatoxin Low Matrix	KIT5007
AlerTox® ELISA Hazelnut	KIT3050	Helica® Deoxynivalenol	KIT5008
AlerTox® ELISA Almond	KIT3049	Helica® Fumonisin	KIT5009
AlerTox® ELISA Pistachio	KIT3054	Helica® Ochratoxin A Universal	KIT5011
AlerTox® ELISA Egg (egg white)	KIT3046	Helica® Zearalenone Low Matrix	KIT5014
AlerTox® ELISA Lysozyme	KIT3044	Helica® Mycotox Total Aflatoxin	KIT5019
AlerTox® ELISA Ovalbumin	KIT3045	Helica® Fumonisin Hydro	KIT5020
AlerTox® ELISA Casein	KIT3043	Helica® Total Aflatoxin Hydro	KIT5021
AlerTox® ELISA Milk (Casein & BLG)	KIT3041	Helica® Deoxynivalenol RAPID ELISA	KIT5022

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