# MQ 96 Well Microplate Reader

## Cat No: ELI-M-R96

**MOLEQULE-ON**®



## Description

MQ 96 well Microplate Reader is versatile and extremely reliable instrument for ELISA test, measuring concentration, absorbance, positive or negative of the antibody and antigen in the sample by testing the color of the Enzyme - Linked Immunosorbent Assay (ELISA). This reader is widely used in research laboratories, testing, biology, agriculture, food and environment research, this making it especially beneficial from ELISA kits increasingly widespread utilization.

## Features

➢ Easy of use with 7 inch touch screen together with 3 external keys.
➢ 8 positions optical filter wheel, equipped with 4 standard optical filters and optional filters available.
➢ 9 channel vertical optical path, zero dispersion single mode fiber measurement system, automatic plate well center position function.
➢ 96-well visual layout helps to mark blank, sample, positive/negative control, quality control and multi-value control.
➢ Able to use individually or connect with PC or PAD to control and export data.
➢ Multi-choice tests on single plate.
➢ Single or double wavelength measurement.
➢ Self-checking optical path, mechanical motion.
➢ Plate shaking function, time and speed are adjustable.
➢ Designed with light source energy saving.
➢ Different kind of data export ports available.
➢ Measurement results can be exported to "MS Excel" file.

# Specifications

| Model | ELI-M-R96 |
|---|---|
| **Light source** | 6V 10W Quartz-Halogen lamp |
| **Wavelength** | 340～750nm |
| **Optical filter** | Four standard filter 405/450/492/630nm, max load eight filters. |
| **Read-out range** | 0.000-4.000Abs |
| **Resolution** | 0.001Abs |
| **Linearity** | $R^2 \geq 0.995$  [0.0,3.0Abs] |
| **Wavelength Accuracy** | $\leq \pm 2$nm |
| **Abs. Precision** | [0,3) CV$\leq$0.3%    [3,4) CV$\leq$1% |
| **Abs. Stability** | $\leq$0.005Abs   [0.0,2.0Abs)<br>$\leq$0.3%      [2.0,3.0Abs)<br>$\leq$2.0%      [3.0,4.0Abs) |
| **Abs. Accuracy** | $\leq \pm$0.005Abs  [0.0,2.0Abs)<br>$\leq \pm$1.0%     [2.0,3.0Abs)<br>$\leq \pm$1.5%     [3.0,4.0Abs) |
| **Sensitivity** | $\geq$0.01Abs |
| **Channel deviation** | <0.01Abs |
| **Speed** | Single wavelength <15s/96well, double wavelength<28s/96well (Normal mode) |
| **Dimension (W×D×H)** | 295 × 440 × 225 mm |
| **Weight (kg)** | 10 |