



# MegaQuant™ Wave Spectrophotometer

Start enjoying high-quality wine analysis at your winery



**3 x FREE  
Assay Kits with  
every purchase**

[www.megazyme.com](http://www.megazyme.com)

Offer ends 30<sup>th</sup> April 2018



**The MegaQuant™ Wave is the ideal investment for small wineries or wine laboratories requiring on-site wine analyses: a robust, compact spectrophotometer at a highly competitive price.**

- ◆ Fully automated calculation of results, even accounting for individual sample dilution
- ◆ Pre-installed protocols for use with an extensive range of **Megazyme test kits**
- ◆ Ease of use with on-board step-by-step instructions and touchscreen interface
- ◆ Operates as a standard spectrophotometer in absorbance mode (*MegaCalc™* compatible)
- ◆ Sequential reactions accommodated by offering up to four absorbance readings per sample
- ◆ Available as a standalone analyser or as part of the **MegaQuant™ Wave Starter Pack**
- ◆ Optional half-volume assays when using Megazyme kits, doubling the number of assays possible per kit.



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## Assay Protocols and Technical Specifications

The MegaQuant™ Wave is supplied with an extensive range of pre-installed protocols covering most of Megazyme's manual format assay kits, including the following kits for wine analysis:

### Organic Acid Analytes

<b>Acetic Acid:</b>	K-ACETRM, K-ACET
<b>Ascorbic Acid:</b>	K-ASCO
<b>Citric Acid:</b>	K-CITR
<b>Gluconic Acid:</b>	K-GATE
<b>Lactic Acid:</b>	K-DATE, K-DLATE, K-LATE
<b>Malic Acid:</b>	K-DMAL, K-LMAL
<b>Succinic Acid:</b>	K-SUCC
<b>Tartaric Acid:</b>	K-TART

### Other Analytes

<b>Acetaldehyde:</b>	K-ACHYD
<b>Ethanol:</b>	K-ETOH
<b>Glycerol:</b>	K-GCROL, K-GCROLGK
<b>Nitrogen:</b>	K-AMIAR, K-LARGE, K-PANOPA
<b>Reducing Sugars:</b>	K-FRUGL
<b>Sulphites:</b>	K-SULPH, K-FSULPH, K-TSULPH, K-ETSULPH

The full list of Megazyme assay kits with pre-installed protocols can be found on our website: over 60 kits at the time of printing, and continually expanding.

### Software

Speed:	Reads, calculates and prints results, 3 sec per tube. Capable of up to 4 absorbance readings per sample to accommodate sequential reactions.
Calculation Modes:	Single point calibration by standard or factor, multipoint calibration with point-to-point curve fit, rate by standard or factor (batch or singular). Calculation mode able to account for sample dilution.
Test Menu:	120 open channels to store protocols. Supplied with pre-installed protocols for Megazyme test kits. Stores all parameters including wavelengths, calculations, unit codes, linear and normal ranges, rate timing, standard values, test names and previous standard curve.

### Photometric

Linear Measurement Range:	Tube or Cuvette 0.0 to 3.0 Absorbance Units (A).
Photometric Accuracy:	+/- (1% of the reading + 0.005A).
Stability:	Drift of no more than 0.005A in 8 h/bichromatic.
Light Source:	Tungsten lamp with lamp saver feature.
Standard Wavelengths:	340, 405, 505, 545, 580 and 630 nm (alternate filters available)
Filter Type:	IAD hardcoat interface, 10 nm half bandpass.
Tube Size:	12 mm round is standard.
Minimum Sample Volume:	1 mL for 12 mm round tube. 250 µL for flowcell.

### Electronic

Display:	Interactive touch-screen 3.5" LCD, colour graphic display.
Printer:	Thermal dot matrix, with graphic capability.
Power Requirements:	115V or 230V AC, 1.5A, 50-60Hz (universal input).
Interface:	USB mouse (option).

### Other

Temperature Control:	Read cell and incubation block, user selectable.
Enclosure:	Painted flame-retardant ABS plastic cover and base.
Dimensions:	Approx. 9 x 13.5 x 5 in (24 x 34 x 13 cm), weighs 6.5 lbs (3 kg).
Certifications:	NRTL listed, CE mark.

