

# HACH LUMINULTRA REAL-TIME TOTAL MICROBIOLOGY TEST

Provides a rapid (<10 minutes), simple assessment of the total microbiological content of your water

Address microbiological threats before the problem grows exponentially!

Whether you are trying to isolate areas of nitrification or commission new water lines, the Hach LuminUltra ATP (Adenosine Tri-Phosphate) Test Kit allows operators to identify, address, and validate microbiological threats during the same shift!

## ATP measures all living organisms with one test!

ATP provides a complete measurement of total microorganisms in your drinking water. Where the traditional standard for counting total microorganisms falls short, the Hach LuminUltra QGA (Quench Gone Aqueous) ATP test provides a true total measurement that complements your regulatory testing requirements!



## Applications of ATP Testing

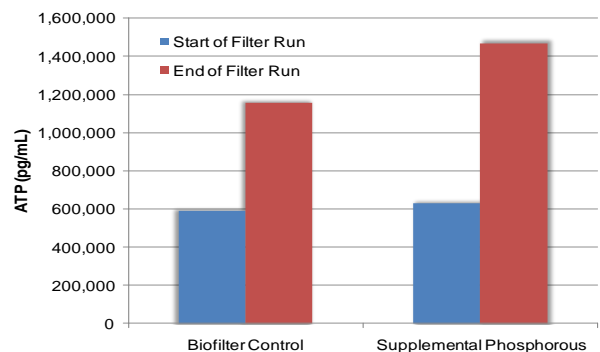
- Determine early stages of nitrification with a single test
- Optimize maintenance programs including line flushing, well flushing, and line breaks
- Address taste and odor customer complaints on-the-spot
- Monitor microbiological water quality in reservoirs and booster stations
- Easily assess if high iron is due to microbial induced corrosion
- Assess microbiological levels in reuse water to ensure the water is safe

## Predictive Capabilities-Easily track your ATP results using LumiCalc Software

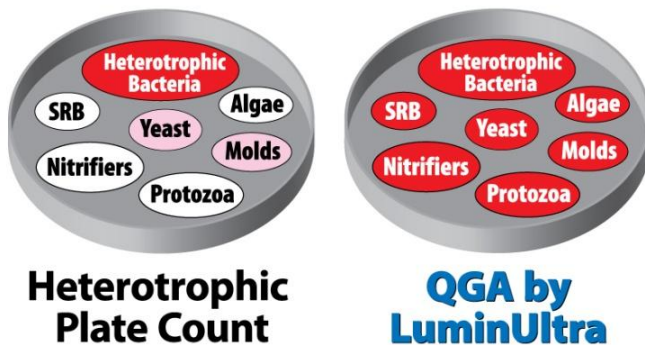
LumiCalc™ software uses state-of-the-art statistical process analysis and graphical tools to analyze and interpret ATP data and display it in an easy-to-understand and aesthetically-pleasing format.

## Emerging Application-Biological Filtration

Engineered biological filtration can be used to improve water quality and reduce DBP formation potential. ATP monitoring can be used to assess the effectiveness of the process by measuring its engine – the biomass. This can be extremely useful in optimizing process operations, as in the addition of nutrients like phosphorous.



Results available courtesy of Carolla Engineers



## Product Specifications

- Linear Dynamic Range (ATP): 4 x 10<sup>-12</sup> to 1 x 10<sup>-6</sup> M ATP
- Linear Dynamic Range (RLU): 0 to 10,000,000 RLU
- Assay Tube Chamber:  $\phi$ 12 x 55mm
- Detector: Photomultiplier Tube (PMT)
- Interface: USB, 3ft cord
- Power: USB 5-volt <120mA
- Control Method: Computer control via LumiCalc software
- Dimensions (mm): 77W x 125D x 88H
- Weight: 1.01lbs (460g)
- Storage Temperature: -10 to +50°C
- Operating Temperature: +5 to +40°C

## Certifications & Compliance

The PhotonMaster is CE and FCC compliant (per EMC Directive 2004/108/EC), RoHS compliant (per RoHS Directive 2011/65/EU), WEEE Exempt, and conforms to VCCI, C-Tick and KCC standards.

## Warranty Information

The PhotonMaster Luminometer comes with a 1-year warranty from date of purchase.

## Luminometer Purchasing Information

- Photonmaster™ Luminometer
  - Part Number: EQP-PAC-PMT

## ATP Test Kits offered by Hach

- QuenchGone21™ Aqueous Test Kit
  - Part Number: QGA-100C
- Deposit & Surface Analysis Test Kit
  - Part Number: DSA-25C
- QuenchGone21™ Specialty Test Kit
  - Part Number: QG21ST-100C
- QuenchGone21™ Wastewater Test Kit
  - Part Number: QG21W-50C
- Quench-Gone™ Organic Modified Test Kit
  - Part Number: QGOM-100C
- QuenchGone21™ Industrial Test Kit
  - Part Number: QG21IT-100C

For more information on Hach's LuminUltra ATP test kits please visit: [hach.com/luminultra](http://hach.com/luminultra)

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