

2nd Generation ATP Test Kits



Luminultra's 2nd Generation ATP kits provide fast, complete, and accurate insight into microbiological activity. Both portable and easy to use, the test kits provide an interference-free indication of total microbial quantity within minutes of sample collection allowing you to save valuable time, help you better manage risk and reduce operating costs. In addition, our highly skilled and knowledgeable staff offers close support every step of the way to achieve your goals.



**Water Treatment
& Distribution**



Liquid Fuel Handling



Cooling Water Systems



Oil & Gas Production



**Biological Wastewater
Treatment**



Product Preservation



Metalworking Fluids



Industrial Process Water

What is ATP?

ATP or Adenosine Triphosphate, is the main energy carrying molecule for all forms of life. This makes the measurement of ATP a direct indication of total microorganisms!

How is it measured?

If you have seen a firefly at night, then you have seen the ATP measurement process in action. Simply put, ATP recovered from microorganisms is mixed with the enzyme Luciferase to produce light which is measured in the Microtox® FX luminometer.

More microorganisms = more ATP = more light!







What can ATP Testing do for me?

The measurement of ATP detects all living microorganisms, rather than just a fraction of the total population. As well, ATP testing is extremely fast – it provides results in minutes instead of days. These two critical advantages over traditional counting techniques can help you save time, manage risk and reduce costs.

- **RAPID:** Provides results in minutes rather than hours, days or weeks
- **ACCURATE:** The 2nd Generation ATP kits are designed specifically for water, organic, and wastewater samples
- **COMPLETE:** Achieves total recovery of all microorganisms in the sample rather than a small fraction
- **QUANTITATIVE:** Includes a built-in standard to normalise results for valid historical and site-to-site comparisons
- **RELIABLE:** All products meet the highest of quality standard and our expert staff provides unparalleled support for all applications

Test Kit Lineup

In the past, ATP test kits were limited to food and medical hygiene applications, with minimal utility in water. Now, through Luminultra's six patented test kits for different applications, we have a solution for all of your testing requirements.

PRODUCT RANGE	
 <p>Low-Solids Waters</p>	<p>Provides a highly-sensitive and interference-free measurement of total living microorganisms in nearly any filterable water sample.</p> <p>e.g. Drinking water, Cooling water</p>
 <p>Low-Solids Organic Fluids</p>	<p>Specifically designed to measure total microorganisms in organic fluids. Compliant with STM E2694 (ATP in metalworking fluids) and ASTM D7687 (ATP in fuels).</p> <p>e.g. Metalworking fluids, Fuels, Oilfield</p>
 <p>Process Waters</p>	<p>A robust reagent system allows reliable measurement of total microorganisms in high solids water and slurries.</p> <p>e.g. Paper process water, Wash water</p>
 <p>Product Preservation</p>	<p>Provides a real-time measurement of total microorganism population size and stress level in high-solids slurries and other chemical products.</p> <p>e.g. Slurries, Paints, Personal care</p>
 <p>Biological Reactors</p>	<p>Accurately measure living biomass concentration and detect toxicity in and around bioreactors to optimise operating cost and stability.</p> <p>e.g. Biological Wastewater Treatment</p>
 <p>Biofilms and Deposits</p>	<p>Gain a rapid and complete measurement of total microorganisms in all types of solid samples.</p> <p>e.g. Slimes, Biofilms, Coupons, Biological Filter Media</p>

*After initial reagent preparation

Equipment also available:

Microtox® FX

Designed for acute toxicity screening and adenosine triphosphate (ATP) testing. The Microtox® FX uses bioluminescence technology to accurately measure the light output from ATP.

The Microtox® FX can also be used to test for more than 2,700 different simple and complex chemicals by using the popular Microtox® technology.

Benefits include:

- » Rapid
- » Extremely responsive with results in just 5 minutes*
- » Detects unknown pollutants and effects of mixtures (synergistic effects)
- » Cost effective
- » Fully portable



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