

Industry Overview

Analytical Service Laboratories

Measure Total Microorganisms in any Environmental Sample!



In addition to providing standard analytical testing services for their customers, analytical service laboratories often perform pilot studies, research projects, customer site surveys, and other special projects. In any project involving biological activity in water systems, efficiency would be greatly increased if feedback was faster in microbial analyses. Now this is possible with LuminUltra's ATP monitoring technology!



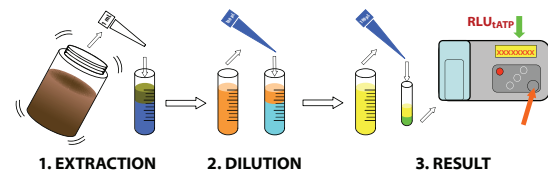
LuminUltra's ATP analysis test kits will provide your lab with the ability to:

- ✓ Obtain real-time feedback on total microbial load with high sensitivity (≤ 100 equivalent CFU/mL) to screen and/or prioritize samples for further analysis.
- ✓ Measure true total bioburden. In such applications as chloramine-treated drinking water, conventional HPC analyses do not detect nitrogen degrading bacteria.
- ✓ Survey sanitary water systems to quickly identify the source of biological contamination.
- ✓ Determine the degree of microbial activity in deposit samples from water distribution pipes or corrosion coupons.
- ✓ Determine the living biomass fraction in wastewater bioreactor samples.
- ✓ Quickly assess biological activity in soil samples, such as for bioremediation projects.
- ✓ Evaluate wastewater toxicity such as individual waste streams from a single plant or separate influents to a treatment process using the Biomass Growth Index (BGI™).
- ✓ Analyze closed cooling water systems to assess risk of biofilm and Legionella formation.
- ✓ Provide quality control checks for any HACCP-based water management program.
- ✓ Analyze samples from rivers, lakes, beaches, pools, and other public sites.
- ✓ Quickly assess treated industrial wastewaters for potential reuse or discharge.
- ✓ Survey potable water distribution systems to prioritize flushing programs.

Why Choose LuminUltra?

LuminUltra's ATP monitoring products are designed specifically for the analysis of any environmental sample. Compared to other biological monitoring techniques, LuminUltra's test kits are:

Easy: LuminUltra's test kits are easily used by any operator or technician and do not require special sampling techniques. Results are easy to interpret and the equipment is *entirely portable!*



Fast: A single ATP analysis takes *under 5 minutes* to complete on-site! Having immediate feedback facilitates reliable operation and maintenance on a daily basis. Plus, suspect results can be repeated on the spot!

Superior: LuminUltra's patent-pending test kits are fully optimized for any type of water – *no other supplier* can match their ease of use and accuracy! Advantages include the ability to convert instrument light readings (RLU's) to active organism counts, multiple barriers against inhibition, even the ability to measure microbial health and wastewater toxicity!

Sensitive: Microbial control is most easily achieved when problems are detected in the early stages of development. Quench-Gone can detect *low levels of activity* without any incubation requirement!

Economical: By comparison with other microbiological analyses, ATP measurements have a *high value per unit cost!* Use Quench-Gone or Total Control for any sample type, from drinking water to wastewater to cooling water!

All-Inclusive: A wide variety of microorganisms can cause problems. Because ATP is present in all microorganisms, Quench-Gone or Total Control provide *ideal general alarm systems* for detecting change in microbiological quantity in any water!

Flexible: With a wide range of detection capability, LuminUltra's test kits can analyze *any water sample* without any incubation requirement! Plus, ATP extracts prepared with UltraLyse reagents are stable for a week, enabling samples to be reliably preserved in the field and analyzed later in a central laboratory!

Combined with other routine physical, chemical, or biological tests, ATP measurements can become an invaluable complementary tool for any analytical service laboratory! Plus, the Kikkoman C-100 LumiTester used in LuminUltra's system can also be used for Microtox® toxicity assays (with an adapted procedure provided by LuminUltra).

ATP – The pH Meter of Microbiology!

*Microtox® is a trademark of Strategic Diagnostics Inc.

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