

### Product Overview

The ATP analysis harnesses a naturally-occurring, light-producing process to measure total microorganism concentration. The amount of light produced in the analysis is directly related to the quantity of microorganisms. To measure the light intensity and therefore the microbiological quantity, a luminometer is required. LuminUltra is pleased to provide to its customers the Berthold Junior LB 9509.






This luminometer is highly sensitive, fully portable, very robust, and allows users to take full advantage of LuminUltra's cutting-edge products.

### Product Compatibility

For your convenience, this product is compatible with all LuminUltra test kits.

### Bundle Formats

Whether you plan on doing most of your ATP analysis in the lab or on the road, we have several equipment bundle formats to meet your needs. All bundles include the Berthold Junior LB 9509 as well as other featured items:

Product		Includes
<b>Berthold Junior LB 9509</b> (EQP-BTJr)		<ul style="list-style-type: none"> <li>• Berthold Junior LB 9509</li> <li>• AC Adaptor c/w Type A, C, and D plugs</li> <li>• Manual</li> <li>• Quick-Reference Guide and Manual</li> <li>• Sample Holders</li> </ul>
<b>Bench-Top Materials &amp; Luminometer Bundle</b> (EQP-BTM-BTJr)		<ul style="list-style-type: none"> <li>• Berthold Junior LB 9509 &amp; Accessories</li> <li>• 0.1-1.0mL Micropipettor</li> <li>• 1-5mL Macropipettor</li> <li>• 12mm Test Tube Rack</li> <li>• 17mm Test Tube Rack</li> </ul>
<b>Field Kit &amp; Luminometer Bundle</b> (EQP-PAC-BTJr)		<ul style="list-style-type: none"> <li>• Berthold Junior LB 9509 &amp; Accessories</li> <li>• Field Carry Case</li> <li>• 0.1-1.0mL Micropipettor</li> <li>• 1-5mL Macropipettor</li> <li>• Foam Test Tube Rack</li> </ul>

## Product Fact Sheet – Berthold Junior LB 9509



### Technical Specifications

The Berthold Junior LB 9509 has the following features:

<b>Detection Method</b>	Photomultiplier in single photon counting mode
<b>Detection Range</b>	<3 fmol ATP, 0.4 amol firefly luciferase
<b>Dark Noise</b>	50 RLU
<b>Dynamic Range</b>	More than 6 decades
<b>Measurement/Integration Time</b>	10 seconds (default).
<b>Wavelength of Maximum Response</b>	380 – 630 nm
<b>Assay Tube Chamber</b>	12mm diameter, 47-75mm height
<b>Output</b>	Relative Light Units, RLU
<b>Data Memory</b>	2000 pieces of data
<b>Display</b>	Illuminated graphic display, 128 x 64 pixel
<b>Interface</b>	RS-232C (USB conversion cable available)
<b>Software</b>	WinTerm (option) terminal software for data transfer to PC and export to EXCEL spreadsheets
<b>Power</b>	3 rechargeable NiMH Akku batteries 1.2V/4500 mAh; AC adapter, 110-230 V; 50/60 Hz; 35 VA
<b>Dimensions</b>	150W x 280D x 170H mm
<b>Weight</b>	Approx. 2kg
<b>Temperature</b>	Storage 0 to +40°C, Operating +15 to +35°C
<b>Humidity</b>	10-90 %, non-condensation
<b>Standard Accessories</b>	1. AC Adapter c/w Type A, C, and D Adaptors 2. Replacement sample holders
<b>Manufacturer's Warranty</b>	1-Year Factory Warranty