

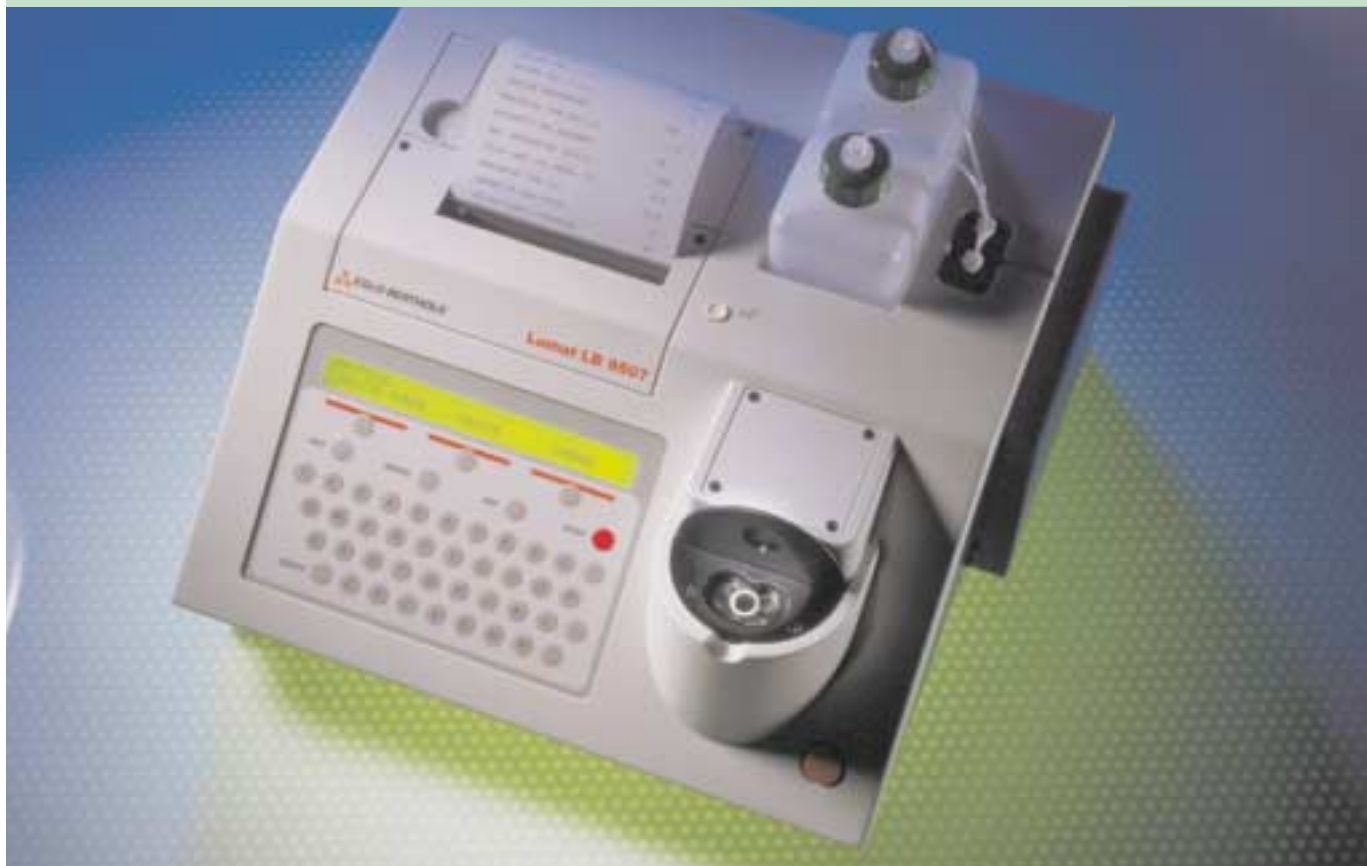


Outstanding Sensitive Luminometer

Lumat LB 9507



A high sensitivity instrument with dynamic range extended to more than 6 decades

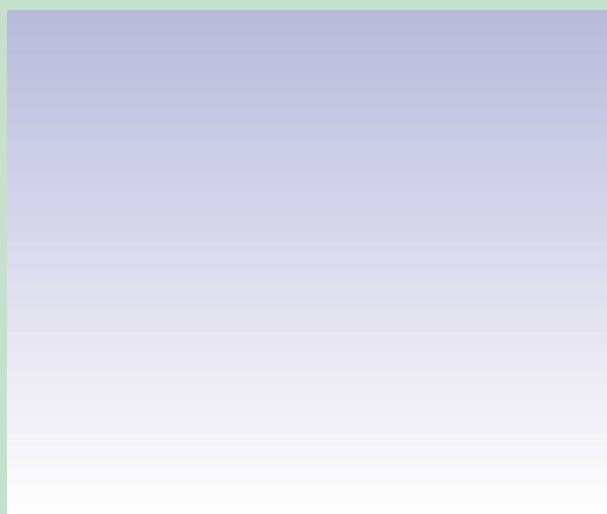


The **Lumat LB 9507** tube luminometer provides the sensitivity and versatility you need in a general purpose luminometer. Advanced tube-based photon counting provides an extended dynamic range with linearity over more

than six decades. A DLReady™ instrument, the Berthold Lumat is ideal for reporter gene assays, and other luminescence research and diagnostics applications.

Key Features

Variable volume injectors The Berthold Lumat features reagent injectors for highest reliability and simplicity in liquid handling. Based on the jet injection principle the injectors combine high speed and precision of the injected volume with reliable mixing of reagents. The injected reagent volume is programmable in the range from 25 μ l to 300 μ l.



Designed to withstand corrosive reagents the Berthold Lumat's variable volume injectors are also optimized to reduce dead volume; an important consideration when using expensive reagents.

Unique measurement chamber design The measurement chamber is designed to allow rotating sample transport. This means you can load a second sample while the first one is being measured, saving time and leading to throughputs approaching those of an automatic instrument. The special design of measurement chamber also allows superior light collection efficiency.

Measurement modes

The built-in 32-bit software has been developed to provide easy, intuitive operation of the instrument's powerful features. You can select from a variety of basic measurement protocols.

■ Raw data protocol:

When the significance of the measurement is the integrated value of light emission over the measurement time – e. g. ATP measurements or reporter gene assays.

■ Dual label protocol:

For automatic injection of reagents, measurement of two different luminescent signals and data calculation.

■ Kinetic measurements:

Three different kinetic measurement modes:

1. Kinetic printout of raw data results
2. Repeated measurements to follow long-term kinetics
3. Endless measurements in rate meter mode

■ Cut-off protocol:

For qualitative interpretation of measured values in positive, negative and intermediate according to the defined standards.

■ Quantitative protocol (LIA, ILMA):

For fully automatic data evaluation according to a calibration curve or master curve.

Applications

■ The Berthold Lumat is the ideal instrument for research and diagnostics

■ Reporter gene assay (including DLR™)

■ ATP/NADPH measurements

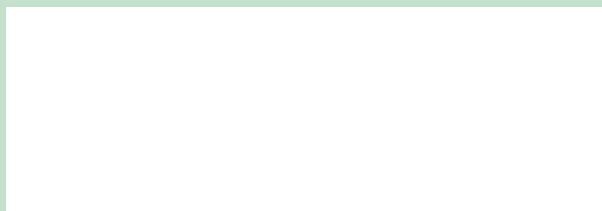
■ Enzyme measurements

■ Luminescent immunoassays

■ DNA probe assays

Specifications Lumat LB 9507

Detector:	New state of the art ultra fast single photon counter, spectral sensitivity range of 380-630 nm	Internal printer:	40-character thermal matrix printer with graphic capability
Measuring chamber:	Motor driven rotating chamber for two tubes (one for measuring and one for loading/unloading)	PC Interface:	RS 232 interface for PC connection
Tube format:	12 mm diameter x 75 mm height	Data storage:	Internal RAM and flash EPROM
Sensitivity:	Approx. 20 attomoles ATP	Power supply:	100 V – 115 V – 230 V
Display:	2 x 40 characters alphanumeric LCD display	Size:	(W) 345 mm, (D) 365 mm, (H) 180 mm
Language:	English, French or German (software selectable)	Weight	Approx. 14 kgs
Injectors:	Up to 2 automatic variable volume injectors. Programmable in the range of 25 µl to 300 µl	Accessories	PC Terminal Software WinTerm Thermal Printer Paper Rolls Lumivials 5 ml, 12 x 75 mm



BERTHOLD TECHNOLOGIES GmbH & Co. KG · P.O. Box 100 163 · D-75323 Bad Wildbad, Germany
Phone (+49) 70 81-177-0 · Fax (+49) 70 81-177-100 · E-Mail: berthold@BertholdTech.com · www.BertholdTech.com