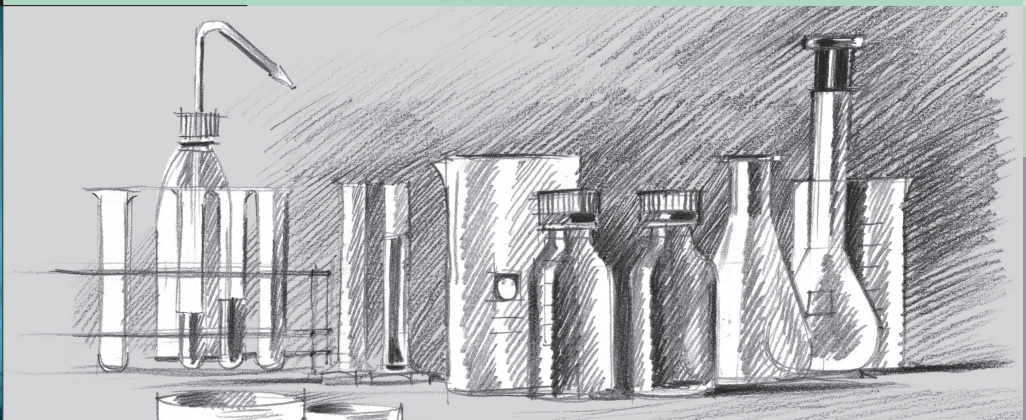


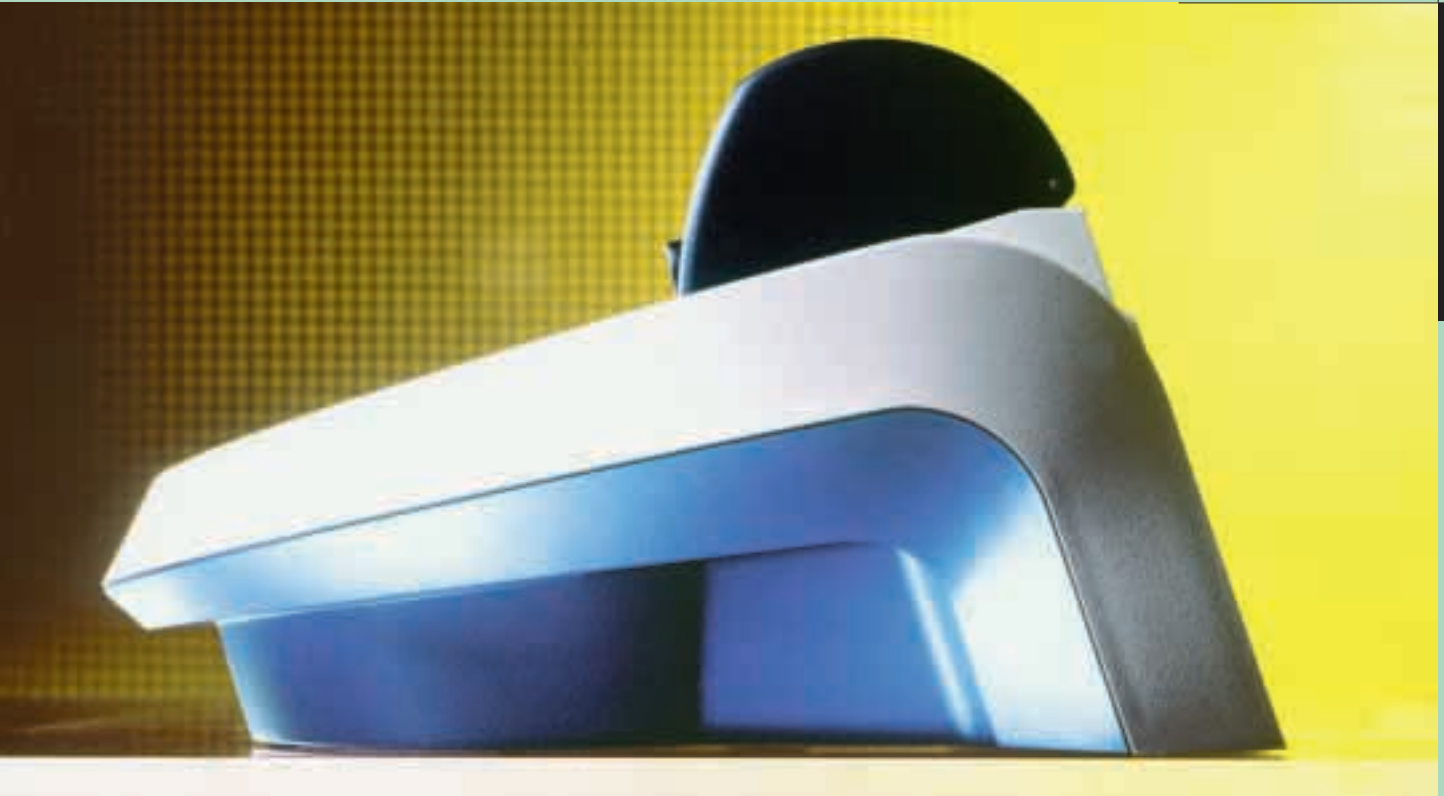


# A Portable Luminometer with Outstanding Value

Junior LB 9509



## Junior LB 9509



The **Junior LB 9509** is a small portable luminometer which follows the fine tradition of **Berthold Technologies** instruments. Junior LB 9509 is especially designed for manual injection and can therefore be used for the measurement of all common glow type bioluminescent and chemiluminescent applications in research, diagnostics and food technology. The performance of the instrument is excellent. Even if it is a simple instrument without data evaluation, it can be used for a

variety of applications: you are free to choose your reagent kit within a **variety of tube formats.** It is designed for laboratory or field use and can be run with main supply or built-in rechargeable batteries, combining **ease of use** with high **quality** and **reliability.** The results are shown on the display and simultaneously stored in a Flash-Memory. Transfer of the data to a PC terminal program via the RS 232 interface is possible at any time.

# Luminescent Applications

**Reporter Gene Assays** Nowadays a broad range of reporter gene assays are available on the market which show a constant light output over minutes or even up to hours. Measurement of firefly luciferase,  $\beta$ -galactosidase or  $\beta$ -glucuronidase are common sensitive luminescent methods to study gene regulation. Even the kits using a second luminescent reaction for the standardization of transfection efficiency, **dual reporter gene assay**, can be measured manually with the Junior LB 9509.

**ATP Monitoring** Due to the increasing availability of glow type ATP kits, based on the light generating firefly-reaction, Junior LB 9509 is the ideal instrument for the whole range of ATP-based assays. Using the CLS II ATP kit of Boehringer Mannheim (FRG) down to 1 fmole ATP can be measured. Since all living cells contain ATP, in **hygiene monitoring** ATP bioluminescence is used to check with a fast and simple test whether surfaces are contaminated with e.g. bacteria. Measured

data are stored with the number of the test and its destination. The results can be transferred to the PC and implemented into the HACCP system of the company.

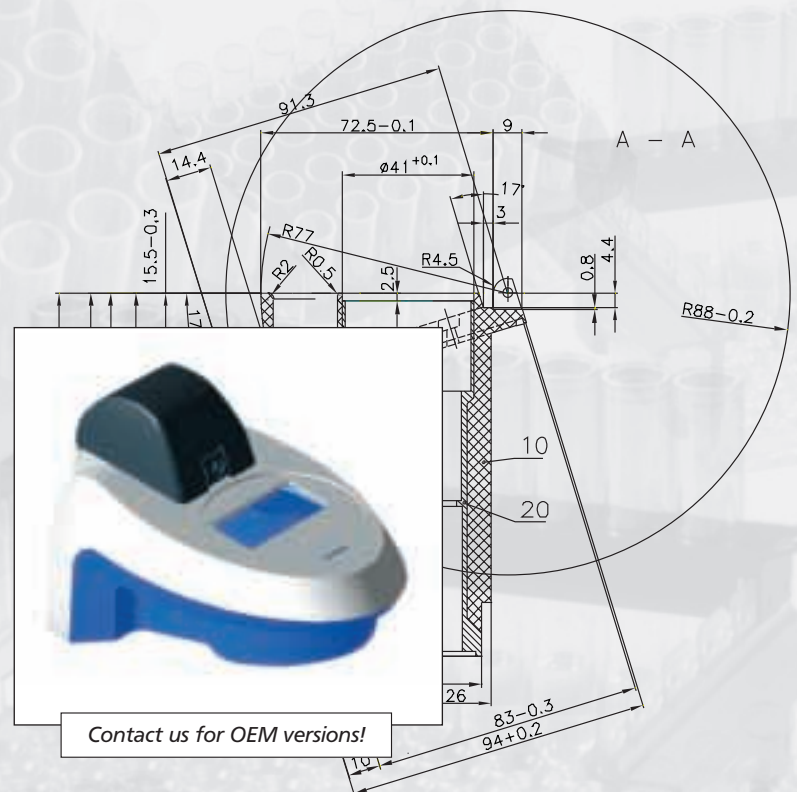
**NAD(P)H Assays** NAD(P)H can be easily measured using the light generating reaction of bacterial luciferases.

**Enzyme Measurements** Since ATP and NAD(P)H belong to the most important substances in the metabolic system, a lot of different applications are correlated to the measurement of these compounds. By use of linked reaction systems a large variety of enzymatic activities can be measured.

**Luminescent Immunoassays** The ability to measure glow type luminescent immunoassays (LIA, ILMA, Luminescence ELISA) makes the Junior LB 9509 also a suitable instrument for in vitro diagnostic applications. By use of the data capture software program WinTerm data evaluation with standard programs like Excel<sup>®</sup> is easy.

## A Portable Luminometer with Outstanding Value

- ease of use
- small
- reliable
- versatile
- various tube formats
- excellent performance
- PC compatible



# Specifications Junior LB 9509

Detector	Ultra fast single photon counter with spectral sensitivity range of 380-630 nm
Sensitivity	1 fmole ATP using the ATP Bioluminescence Assay Kit CLS II (Boehringer Mannheim, FRG)
Dynamic range	More than 6 decades
Tube format	12 mm diameter, 47-75 mm height; 15 mm diameter, 47-75 mm height
Language	English or German (software selectable)
Display	Graphic display with backlit LED, 128 x 64 dots
Interface	RS 232 C interface for data transfer to a PC
Software	Built-in microprocessor, storage of 6 different measuring protocols
Measurement time	Selectable in steps of 1 s between 1 and 999s
Data storage	Storage of the last 2000 results
PC-software	Data capture software program WinTerm for easy data transfer and evaluation
Power supply	230 V 50 Hz, 115 V 60 Hz
Batteries	3 rechargeable NiCd R14/C/Baby/UM2 batteries; 1600 mAh
Dimensions	150 mm, 280 mm, 170 mm (WxDxH)
Weight	Approx. 2 kg net
Humidity	10% to 90% no condensation
Recommendet operation temperature	15°C to 30°C

Ordering information Junior LB 9509	Order Number
Junior LB 9509	32526-10
Tubes 12 x 75 mm, box of 2000	09778
Adaptervials, 10 pack	32737
Rechargeable batteries, 3 pack	19713
PC connecting cable	26204
Transport case	32700
Datacapture software WinTerm	29890
Test light source available upon request	

