

LuminMax-C™

- Compact Attomole Luminometer



microplate (black or white). The microplate has a clear bottom; therefore, the luminescence can be detected from the bottom of the well. Because it uses state-of-the-art photoncounting multiplier tube as detector, the system is extremely sensitive. LuminMax-C has the ability to count the number of photon generated from the reaction, it means that it can detect very small amount of analyte in the samples. A CD, with user-friendly software, is provided for easy installation. LuminMax-C utilizes PC or notebook as its microprocessor. The system is interfaced to a computer by a simple plug-in (USB or serial port) connection. After click on the "Go!" button, the system automatically and quickly scans all of the selected microwells and displays the results. The resulting data is displayed as a spreadsheet in Microsoft-Excel format. The data, reported as number of photon counts or relative light unit (RLU), is displayed as it is collected.

INTRODUCTION

The study and use of bioluminescence and chemiluminescence has increased dramatically in the recent years. The applications have extended from ATP-luciferase assay for cell viability tests, to current DNA, genomic, and proteomic analysis. Unlike a fluorescence system, there is no need for an exogenous light source. Luminescence is generated from chemical reactions. Utilizing photoncounting detector, counting the photons generated from the reaction, luminescence assay has become one of the most sensitive optical detection method. LuminMax-C offers excellent sensitivity, accuracy, ease of use, compactness, and affordability.

FEATURES

LuminMax-C is a compact model designed for highly sensitive chemiluminescence and bioluminescence detection. The system measures the luminescence intensity in a 96-well

APPLICATIONS

- *ATP assay*
- *Luciferase assay*
- *Immunoassay & proteomics*
- *Nucleic acid, DNA assay & Genomics*
- *Clinical diagnostics*
- *Genomic analysis*
- *Toxicity test*
- *Cell viability test*
- *Restaurant sanitary test*

LUMINOMETER

LuminMax-CTM

- Compact Attomole Luminometer

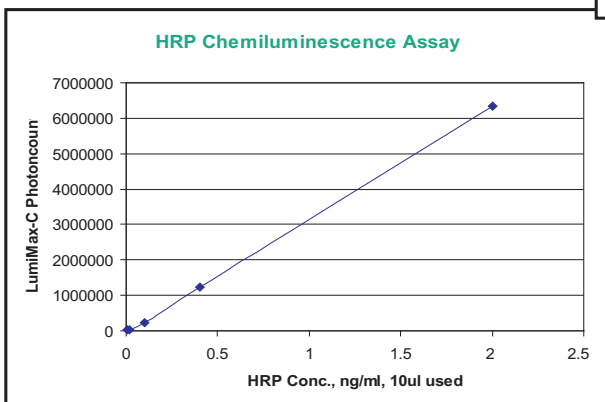
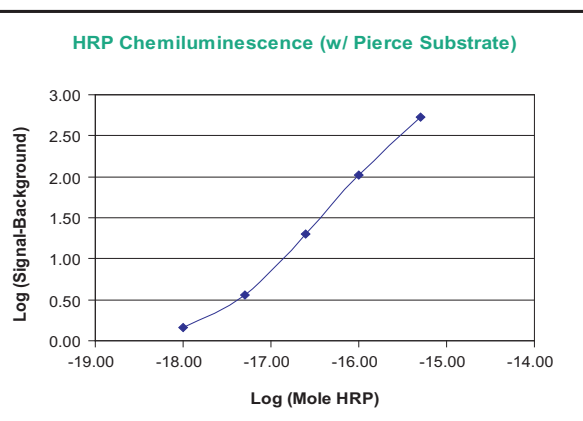


SPECIFICATIONS

Optical detection:	Chemi- or bio-luminescence
Plate format:	Microplate (96 wells)
Sensitivity:	1 attomole HRP
Optical wavelength:	300 ~ 680 nm
Dynamic range:	Seven decades
Optical detector:	Photoncounting PMT
Cross-talk:	$< 6 \times 10^{-5}$
Operation:	Automated scanning any or all wells Integration time (0.01~10.0 S) per well Adjustable number of scans Adjustable delay for kinetic study
Interface:	Serial or USB to PC or Notebook (PC or Notebook not included)
Software:	CD with user friendly software Display all microwell data
Data output:	Excel format in MS Windows
Power requirement:	115V, 60Hz
Dimensions:	12" W x 11" L x 5.8" H (30cm W x 28cm L x 15cm H)
Weight:	19.8 lb. (9kg)

LUMINOMETER USERS

- *Biotechnology research laboratories*
- *University biological and biochemical laboratories*
- *Hospital research laboratories*
- *Government biological and biomedical laboratories*
- *Food industry*
- *Environmental testing*
- *Forensic testing*



LuminMax-C generates linear calibration curve with small amounts of samples

Excellent sensitivity
 1×10^{-18} mole can be measured by LuminMax-C

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