LUMIstar® Omega

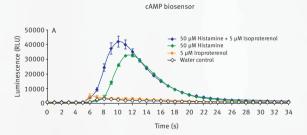


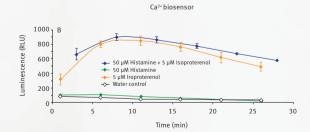
Dedicated luminescence microplate reader

The LUMIstar® Omega is BMG LABTECH's powerful dedicated luminescence microplate reader, providing highly sensitive flash and glow assay readings. This DLReady-certified microplate reader can also come equipped with Simultaneous Dual Emission for BRET applications, and can be further upgraded to a multi-mode reader.

Features

- High performance microplate reader for luminescence
- · Top and bottom reading
- BRET, optional with Simultaneous Dual Emission detection
- · Up to two reagent injectors
- Upgradeable to FLUOstar® Omega or POLARstar® Omega including multiple detection modes and UV/vis spectrometer
- · Powerful MARS data analysis software





Multiplexing luminescent measurements of human mesenchymal stem cells [hMSC] transiently transfected with a live-cell cAMP biosensor [A] or Ca²- biosensor Clonetics [M] from Lonza. The effect of drug additions on two signaling pathways in just one well is performed on the LUMIstar Omega microplate reader.



Due to the modularity of BMG LABTECH's instruments, all, or combinations of the features below can be installed at purchase or upgraded at any time. Please contact your local representative for more details or a quote.

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Luminescence (flash and glow) - including BRET	
Top and bottom reading Endpoint and kinetic Sequential multi emission Simultaneous Dual Emission Ratiometric measurements	
6 to 384-well plates, user-definable	
Robot compatible	
Low noise photomultiplier tube	
Optical filters	
Emission filter wheel for 8 filters	
Top: liquid-filled light guides Bottom: fiber optics	
240 - 740 nm	
< 20 amol/well ATP DLR certified	
16 s (96), 47 s (384)	
Up to 2 built-in reagent injectors Injection at measurement position (6 to 384-well) Individual injection volumes for each well (3 to 500 μL) Variable injection speed up to 420 μL/s Up to four injection events per well Reagent back flushing	
Linear, orbital, and double-orbital with user-definable time and speed	
+4 °C above ambient up to 45 °C or 65 °C The upper heating plate of the incubation chamber operates at 0.5 °C more than the lower plate. This prevents condensation build-up on the lid or sealer.	
Multi-user Reader Control and MARS data analysis software included FDA 21 CFR Part 11 compliant	
Width: 44 cm, depth: 48 cm, height: 30 cm; weight: 28 kg	
Optional accessories	
Magazines for up to 50 plates - continuous loading feature	
System to inject an atmosphere or to pull a vacuum into the reader	
Actively regulates O ₂ and CO ₂ - 0.1-20 %	
Microplate incubator and shaker	
Emission filters	
Please contact your local representative for upgrades including options such as detection modes, reagent injectors, etc.	





The Microplate Reader Company

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Specifications are subject to change without notice.

DLR is a trademark of Promega Corp.



^{*}Limit of detection (sensitivity) was calculated according to the IUPAC standard: $3x(SD_{blank})$ /slope Microplates: white for LUM