

BMG LABTECH has a library of published articles from scientific journals, in addition, we publish our own application notes covering the latest assay topics. If you have any questions regarding assays or techniques call your local BMG LABTECH office, our scientists and technicians are always ready to help.

HTRF®

Kinase activity
Reporter gene assays
 LanthaScreen™ Binding studies
 Dual luciferase assays
 DNA / RNA quantifications
 Solubility tests
HTS Cell Viability
BRET assays FRET assays
 Apoptosis
 PCR product quantifications
 SNP Genotyping
 Immunoprecipitation
 Protease activity
 ROS detection
 NADH / NADPH assays
Ca²⁺ assays
 ATP detection
 Enzyme activity
DLR™
ORAC AlphaScreen®
 Gene expression
ELISA
 Enzyme kinetics
 Protein quantifications

HTRF is a registered trademark of Cisbio international.
 LanthaScreen is a trademark of Invitrogen Corporation.
 DLR is a trademark of Promega Corporation.
 AlphaScreen is a registered trademark of PerkinElmer, Inc.

Specifications are subject to change without notice.

Headquarters
Germany
 BMG LABTECH GmbH
 Hanns-Martin-Schleyer-Str. 10
 77656 Offenburg
 Tel. +49 781 96968-0
 Fax +49 781 96968-67
 germany@bmglabtech.com

Australia
 BMG LABTECH Pty. Ltd.
 2/24 Carbine Way
 Mornington 3931
 Victoria
 Tel. +61 3 59734744
 Fax +61 3 59734711
 australia@bmglabtech.com

France
 BMG LABTECH SARL
 7, Rue Roland Martin
 94500 Champigny s/Marne
 Tel. +33 1 48862020
 Fax +33 1 48864707
 france@bmglabtech.com

Japan
 BMG LABTECH JAPAN Ltd.
 2F TS-1 Building
 1-6-2, Shimo-cho, Omiya-ku,
 Saitama-city 330-0844
 Tel. +81 48 6477217
 Fax +81 48 6477218
 japan@bmglabtech.com

UK
 BMG LABTECH Ltd.
 P.O. BOX 73
 Aylesbury Bucks HP20 2QJ
 Tel. +44 1296 336650
 Fax +44 1296 336651
 uksales@bmglabtech.com

USA
 BMG LABTECH Inc.
 2415 Presidential Drive
 Building 204, Suite 118
 Durham, NC 27703
 Tel. +1 919 806 1735
 Fax +1 919 806 8526
 usa@bmglabtech.com

www.bmglabtech.com

Innovative Microplate Readers



PHERAstar



Ultimate HTS Multidetection Microplate Reader – Unsurpassed speed and sensitivity for all leading non-isotopic detection technologies

- Fluorescence intensity, FRET, fluorescence polarization, time-resolved fluorescence, HTRF®, LANCE™, AlphaScreen®, UV/Vis absorbance, and luminescence including BRET
- Fastest read times with simultaneous dual emission detection in all modes and in all plate formats up to 1536-well
- Five photomultiplier tubes (PMTs) optimized for specific reading modes
- Additional red laser for AlphaScreen®



FLUOstar Omega



High Speed Multidetection Microplate Reader – A full UV/Vis absorbance spectrum in every well

- UV/Vis absorbance spectra, fluorescence intensity, FRET, time-resolved fluorescence, and luminescence including BRET
- Captures a full absorbance spectrum (220 – 850 nm) at a resolution of 1 nm
- Spectrum read times faster than 1 second per well are possible
- Onboard 'smart' injectors dispense reagents and initiate kinetic events
- Dedicated luminescence detection system
- Plate shaking, incubation up to 60°C, and plate formats up to 1536-well



SPECTROstar Omega

UV/Vis Spectrophotometer Microplate Reader – Captures a full absorbance spectrum or fixed user-defined wavelengths

- Photometric spectral scan (220 – 850 nm) down to a resolution of 1 nm
- Spectrum read times faster than 1 second per well are possible
- Fully upgradeable to FLUOstar Omega or POLARstar Omega
- Up to two integrated reagent injectors
- Plate shaking and incubation



RUBYstar



Dedicated HTRF® Microplate Reader – The most sensitive HTRF® reader available

- Time-resolved fluorescence and HTRF®
- High energy nitrogen laser
- Fastest read times with simultaneous dual emission detection
- Decay curve monitoring with 2 μs resolution



POLARstar Omega



High Speed Multidetection Microplate Reader with Simultaneous Dual Emission Detection – Built on the FLUOstar Omega platform

- All the features of the FLUOstar Omega plus fluorescence polarization
- Two matched PMTs allow Simultaneous Dual Emission Detection of two signals
- Fantastic speed and accuracy advantage in FRET, BRET, and FP assays
- Script language for advanced protocol setting



LUMIstar Omega



Dedicated High Performance Microplate Luminometer – Performs all luminescence based applications, including DLR™

- Upgradeable to FLUOstar Omega or POLARstar Omega with spectrometer
- Built-in filter wheel for measurement at eight distinct wavelengths
- BRET capable, optional with Simultaneous Dual Emission Detection
- Up to two integrated reagent injectors



NOVOstar



Cell-based Fast Kinetic Microplate Reader – Plate-to-plate transfer with micropipettor is ideal for cellular assays and assay development

- Fluorescence intensity, fluorescence polarization, time-resolved fluorescence, luminescence, and UV/Vis absorbance
- Rapidly screen 96 or 384 different analytes
- Dual microplate carrier for sample and reagent plate
- Pipettor system for plate-to-plate and tube-to-plate liquid transfer
- Up to three additional reagent stations and two injectors



NEPHELOstar

World's First and Only Laser-Based Microplate Nephelometer – Measures the turbidity or solubility of a sample in plate formats up to 384-well

- Detects particles in liquid samples by measuring forward scattered light
- Adjustable laser intensity and laser beam diameter
- Up to three integrated reagent injectors
- Plate shaking and incubation



THERMObstar

High Performance Incubator – Orbital shaking and up to four microplate capacity

- Programmable temperature, shaking speed and incubation time
- Microprocessor controlled uniform temperature incubation
- Status displayed in real time



Stacker II

Microplate Handling System – Designed for integration with BMG LABTECH microplate readers

- 50 plate capacity magazines
- Continuous load feature
- Barcode reader
- Script mode for advanced protocol setting