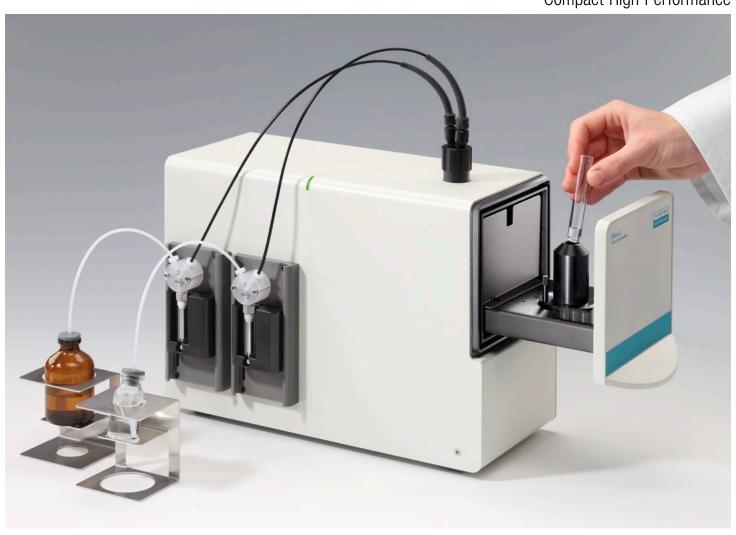


Sirius L Single Tube Luminometer

Compact High Performance



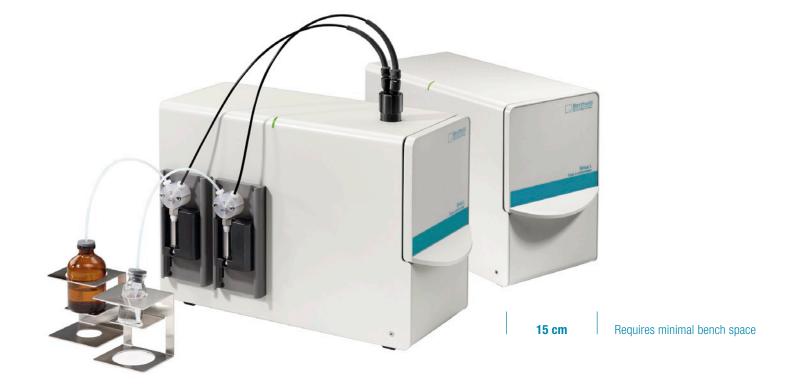
The Sirius L is a compact high performance tube luminometer with unique features:

The sample versatility is unmatched.

The Quickstart capabilities provide results on the fly.

The intuitive and powerful PC software sets the standard: Windows® 10 compatible.

Sirius L in Flash configuration (left) and Glow configuration (right)



Wide Range of Applications

The Sirius L is the perfect choice for all luminescent flash and glow applications performed in single sample format, for example:

- · Reporter gene assays, including dual-reporter assays
- · Rapid detection of mycoplasma contamination in cell cultures: Lonza MycoAlert®
- · ATP assays
- · Cell proliferation, cytotoxicity and biomass assays
- · Apoptosis assays
- · Cellular luminescence/reactive oxygen species
- · Environmental toxicity and mutagenicity assays

Supersensitive Detector

The Sirius L detects less than 0.5 zmol of firefly luciferase. Light collection is maximized through the proximity of the sample to the detector and the use of optimized light reflectors surrounding the sample vial.

Quickstart Capabilities

Closing of the sample drawer automatically initiates the measurement with no need to press any key. The automatic light shutter protects the detector from ambient light, making the instrument ready to measure from the moment the door is closed.

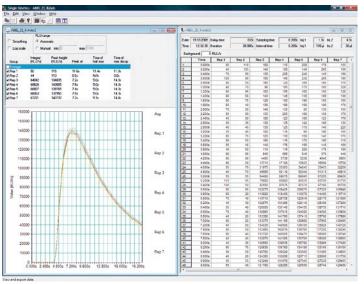
Sample Formats

The sample chamber is designed for performance and flexibility. Accommodating of a variety of vial types: From 35 mm petri dishes to microfuge format to 20 ml vials, there is virtually no limit.

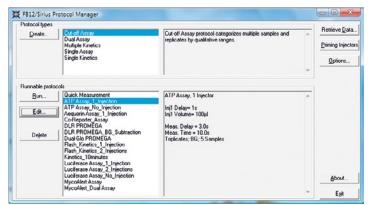
Various Injector Options

The instrument is available with up to two syringe-type automatic reagent injectors. The injection volume range is $20-500\,\mu$ l. Ready-to go sample holders for precise injection are available for 1.5 ml and 2 ml microfuge tubes, as well as for 55 mm and 75 mm, 12 mm diameter tubes (standard format for most luminescence assays).

Sirius L Software – Intuitive, Fast and Easy to Use



Available protocols for every application. Kinetic evaluation, data table (right), curve parameters and graphic presentation (left)



Sirius L software: Protocol Manager

Powerful Software

The PC Software is easy to set up and run. The instrument is detected automatically via USB or RS-232 connection. The Sirius L basic software package includes the Protocol Manager and Quick Measurement.

Five additional protocol types are available:

Single Assay, Dual Assay, Single Kinetics, Multiple Kinetics and Cut-off Assay. The user may define new protocols of all types. Highly flexible graphical presentation of kinetic data is supported.

Sirius L - A Reliable Benchtop Companion

Sirius L does not require calibration. The detector system will remain stable and reliable for the lifetime of the instrument.

Tools are available should your lab require regular formal validation of instrument performance:

The Luminescence TestTube provides stable light output within the measurement range. The format is that of a 12 x 75 mm sample vial. Our 3Q procedures provide guidelines for periodic maintenance, as well as several types of checklists, schedules and logbooks.



Sirius L allows automatic injection into many different sample vials



Sirius L supports both USB and RS-232 data ports

Sirius L Technical Data

Luminometer	
Sample Format	12 x 75 mm or 55 mm tubes, 1.5 and 2 ml microfuge tubes, 35 mm culture
	dishes, liquid scintillation vials up to 20 ml
	Injection operation with tubes 12 x 75 mm or 55 mm and microfuge tubes
	1.5 and 2 ml
Detector	Photon counting PMT, spectral range: 300-600 nm
Measurement Chamber	Retractable drawer with interchangeable reflectors and sample adapter
Sensitivity	Better than 0.5 zmol firefly luciferase, 1 amol ATP in a HS ATP assay
Dynamic Range	6 decades
Interfaces	USB or RS 232 interface for PC connection
Injector	0, 1, 2 (upgrade possible)
Injection Volume	20–500 μl adjustable in steps of 1μl
Tubing	Chemically inert PTFE tubing and connections (PTFE or KEL-F)
Dimensions (H x W x D)	24.1 x 34.9 x 15 cm / 9.5 x 13.7 x 5.9 inch (without injection tubings)
Weight	3.6 kg / 7.9 lb
Power Requirements	Desktop power supply and power cord. 100–240 V AC, 24 V/2.5 A DC
Environment	Storage 0-40°C up to 80% humidity (@30°C), non condensing
	Operation 10–35° C up to 70% humidity
PC Software	
PC Software	Microsoft Windows® application for control, measurement and evaluation
Required Hardware	Microsoft Windows® compatible PC, Pentium like processor,
	USB port or RS 232
Operating System	Windows® 7, 8, 10
Additional Software	Microsoft Excel™ (optional)
Standard Configuration	Protocol Manager, Quick Measurement
Additionally Available	Single Assay, Dual Assay, Single Kinetics, Multiple Kinetics, Cut-off Assay
Ordering Info	
Ordering Info 110 401 10	Sirius L Single Tube Luminometer, PC controlled
110 401 10	Sirius L Single Tube Luminometer, PC controlled Sirius L Single Tube Luminometer, one reagent injector, PC controlled
110 401 12	Sirius L Single Tube Luminometer, one reagent injector, PC controlled
155 200 15	Sirius L licence for PC software, Microsoft Windows, includes all protocols
140 001 30	Luminescence TestTube for validation
181 000 26	Sirius L injection sample holder/reflector for microfuge vials
181 000 28	Sirius L sample holder / reflector for microfuge vials Sirius L sample holder / reflector for microfuge vials
132 005 00	5 ml vials, 75 x 12 mm, 500 pieces
134 003 00	o iii viais, rox iz iiiii, ooo pieces

Specifications subject to change without prior written notice. For research use only. Please inquire for IVD versions.

TITERTEK BERTHOLD