



ScanLater Western Blot Detection System

Enabling the SpectraMax i3 and Paradigm Detection Platforms

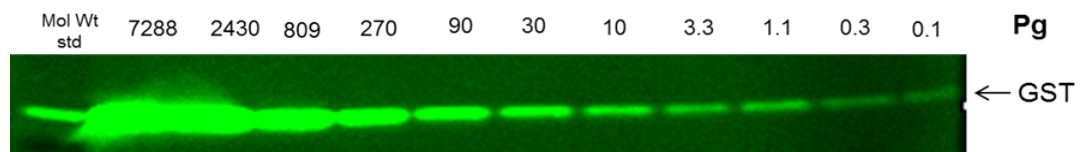
Key Features

- Enabling western blot detection on a microplate plate reader
- Extended signal stability via substrate-free method
- Expanded dynamic range eliminating cumbersome optimization

The ScanLater™ Western Blot Detection System enables first-of-its-kind western blot membrane detection in a multi-mode microplate reader platform. This system includes the ScanLater Western Blot Detection Cartridge, ScanLater Western Blot Assay Kit and image acquisition powered by SoftMax® Pro Software. Users can install the ScanLater Western Blot Detection Cartridge in either the SpectraMax® i3 or SpectraMax® Paradigm® Systems in just minutes, adding western blot detection capability, rather than investing in dedicated western blot detection systems.

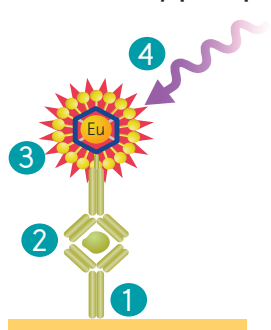
The ScanLater Assay is a time-resolved fluorescence (TRF)-based western blot detection assay. TRF is an optimal detection method as reduction in stray excitation light results in lower background and higher sensitivity. ScanLater Western Blot Kits contain Europium-labeled secondary antibodies designed to work with existing primary antibodies without further optimization. This substrate-free method of western blot detection not only outperforms traditional chemiluminescence and fluorescence-based western blot detection, it significantly extends signal stability, allowing membrane scanning at any time.

Low-picogram sensitivity and very wide linear range



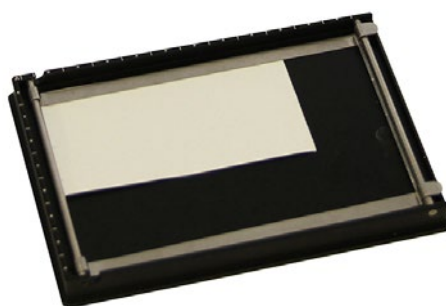
Low background of TRF due to reduction in autofluorescence enables low picogram detection limits of protein.

ScanLater Assay principle



Use existing primary antibody (1) for binding to protein of interest (2). Eu-labeled ScanLater Secondary Antibody (3) binds to primary antibody. Detection with ScanLater TRF Western Blot Detection Cartridge (4).

Western blot membrane holder



The ScanLater Western Blot membrane holder accommodates a wide variety of membranes.

ScanLater Western Blot Cartridge



The ScanLater Western Blot Detection Cartridge is user-installable to the SpectraMax i3 or SpectraMax Paradigm Multi-Mode Detection Platforms.

The ScanLater Western Blot Kit contains all components needed to go from transfer to detection. There are three kits available: anti-rabbit, anti-mouse or Streptavidin. Each kit contains enough Europium-labeled secondary antibody, blocking buffer and wash buffer to run 30 mini-sized membranes, and all kits are validated for use on the SpectraMax i3 or SpectraMax Paradigm Microplate Readers.

The ScanLater Western Blot Detection Cartridge, driven by SoftMax Pro Software, allows one software platform to run both microplate-based assays and western blot membrane detection. SoftMax Pro Software provides a simple interface for acquiring *.TIF-based images which may be printed, saved or exported to third-party analysis packages. Using an add-on for *ImageJ* in SoftMax Pro Software, ScanLater Western Blot images are seamlessly exported with a single click to *ImageJ*.

Technical specifications

Cartridge size:	2 positions on instrument
Mounting:	Top read
Light source:	Xenon flash lamp
Excitation range:	340/80 nm
Emission range:	616/10 nm

Ordering information

Item	Includes	Part number
ScanLater Western Blot Hardware	- ScanLater Western Blot Detection Cartridge - Membrane sample holder - SoftMax Pro Software 6.3.1 or greater	0200-7027
ScanLater Assay Kit: Streptavidin	- Eu-labeled Streptavidin (60 µg) - Blocking buffer (120 mL) - Wash buffer (300 mL)	R8203
ScanLater Assay Kit: Goat Anti-Rabbit	- Eu-labeled Anti-Rabbit antibody (60 µg) - Blocking buffer (120 mL) - Wash buffer (300 mL)	R8202
ScanLater Assay Kit: Goat Anti-Mouse	- Eu-labeled Goat Anti-Mouse antibody (60 µg) - Blocking buffer (120 mL) - Wash buffer (300 mL)	R8205
Reagent kit components		Part number
ScanLater wash buffer (100 mL)		R8206
ScanLater 5x blocking buffer (120 mL)		R8207
ScanLater Goat Anti-Mouse Eu-labeled antibody (60 µg)		R8208
ScanLater Goat Anti-Rabbit Eu-labeled antibody (60 µg)		R8209
ScanLater Eu-labeled Streptavidin (60 µg)		R8212
ScanLater SpectraMax Membrane Holder		0200-7203

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