

LUMIGEN[®] TMA-3 CHEMILUMINESCENT SUBSTRATE

Features

Excellent Sensitivity

Less than 5 pg of β -galactosidase can be detected on Western Blots, and 10^{-20} moles HRP in solution based assays.

Rapid Peak Intensity

Short exposures; high signal intensity permits rapid visualization of blots.

Linear Calibration Curves

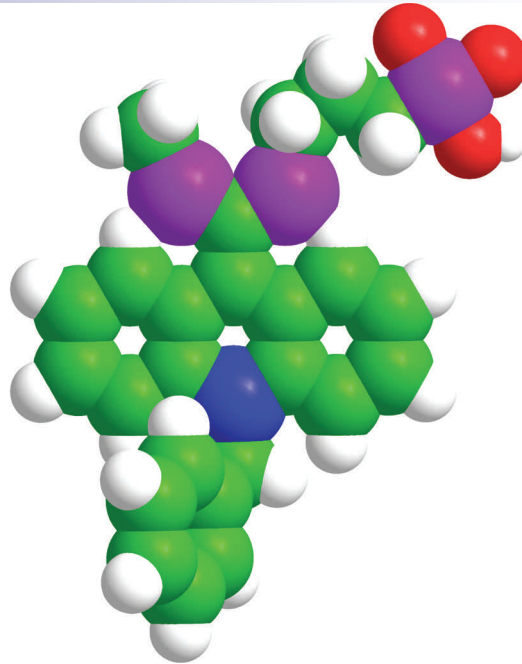
Slope of log-log plots equal 1.0 - One order of magnitude more enzyme yields one order of magnitude more light. Light intensities can be read at any time to produce linear calibration curves.

Sustained Luminescence

Timing is less critical. Sustained signal duration over several hours allows convenient imaging.

Temperature Insensitive

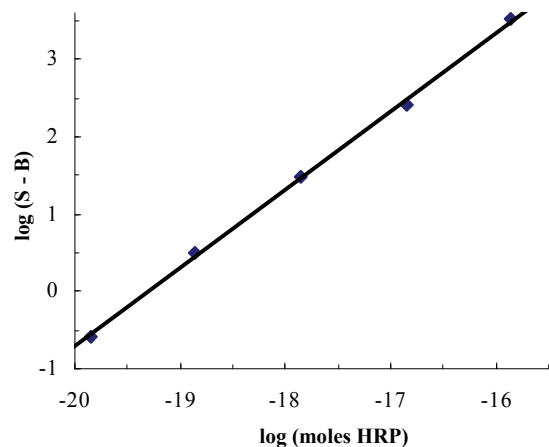
Analytical results are insensitive to temperature from 22°C - 35°C reducing the need for precise temperature control.



Lumigen TMA-3 is a novel substrate for the chemiluminescent detection of peroxidase conjugates on membranes. Reaction of the substrate with an HRP label generates sustained luminescence of the highest intensity. A unique feature of Lumigen TMA-3 is its superior stability. Unlike most other chemiluminescent peroxidase substrates, the working solution is stable at room temperature for at least three weeks and at 4°C for at least four months. With this stability, the working solution can be prepared and stored for later use.

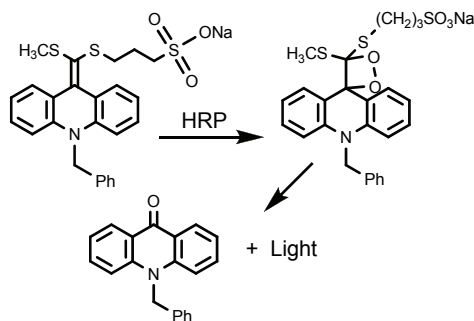
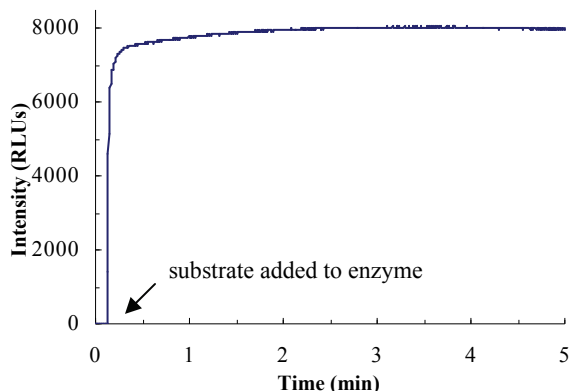
EXCELLENT SENSITIVITY

10^{-20} moles HRP can be detected in homogenous solution assays. Linear calibration curves can be constructed at any fixed time point and initial rates are proportional to the amount of enzyme present in the sample.

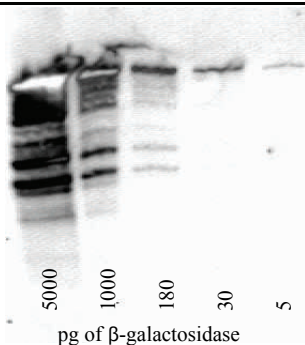


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RAPID PEAK INTENSITY



BLOTTING APPLICATIONS



Blotted antigen was bound to anti- β -galactosidase HRP conjugate and detected with TMA-3. All quantities of antigen down to 5 pg could be imaged after a 30 min. incubation period and ten 30 second exposures in a CCD camera imaging system.

PRODUCT SPECIFICATIONS

Enzyme	Horseradish Peroxidase
Application	Blotting / ELISA
Analytical Sensitivity	10^{-17} moles HRP on WB; 10^{-20} moles HRP in solution assays
Storage Conditions	2-8° C; Store in amber bottle
Stability	1 Year stored at 2-8° C
Working Solution	2 Part solution (A & B); Stability of working solution: 21 Days at Room Temperature, 4 months at 4° C

ORDERING INFORMATION

Description	Cat. No.
Lumigen TMA-3 (100 mL; 50 mL A & 50 mL B)	TM3-100
Lumigen TMA-3 (1 L; 500 mL A & 500 mL B)	TM3-1000

CONTACT INFORMATION



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