# Chemiluminescent substrate optimized for digital imaging systems

ChemiGlow chemiluminescent substrate from Alpha Innotech is the world's first chemiluminescent substrates optimized for CCD imaging technology with the Alpha Innotech FluorChem® Imaging Systems. ChemiGlow is available for Western blots for total flexibility.



# ChemiGlow substrate is the world's first chemiluminescent substrate optimized for CCD digital imaging systems.

ChemiGlow substrate has been optimized for superior performance with Alpha Innotech imaging systems by providing unequaled performance compared to film, which saves time and money by providing high dynamic range digital images at a fraction of the cost of film.

### ChemiGlow substrate delivers exceptional signal at an exceptional price!

- Process more samples with the same amount of substrate.
- Get more from your reagent budget.
- Gel more signal with less background.
- Save money on film by using the FluorChem imaging system for digital image capture and inexpensive thermal hard copy print outs in just seconds!

# ChemiGlow substrate is ideal for the MovieMode™ function of FluorChem imaging system

- Multiple user-defined exposures are automatically captured with a single button click.
- Saves time and money by avoiding multiple film use.







Which image do you prefer?



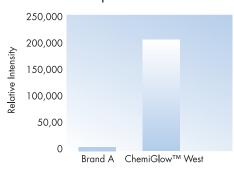
### ChemiGlow substrate generates long lasting light emissions, giving you flexibility.

- Multiple, long exposures are possible without signal decay.
- Prepare and process samples in batches and simultaneous exposures for improved experimental consistency.

# Signal Duration 250,000 200,000 150,000 100,000 1 2 3 4 5 6 Hours

Detection of antigen was preformed using Anti-Actin, Goal Anti-Mouse-HRP conjugate and either Brand A or ChemiGlow West substrate. Each substrate was applied for 1 minute. The membranes were removed, and after 1 minute, and in intervals over a 6 hour period, were exposed to film for 1 minute, ChemiGlow West demonstratedfar superior signal duration.

#### Re-exposure after 24 Hours



The membranes from the experiment above were kept moist over inglit and reexposed to film of-ter 24 hours. After a 30-minute exposure, Brand A did not generate a signal. ChemiGlow West, however, generated a signal equivalent in intensity to a minute immediate exposure.

#### ChemiGlow substrate is available in flexible versions for all of your chemiluminescence imaging needs.

ChemiGlow West substrate for Westerns and chemiluminescent plate assays based on HRP.



Western blot imaged with Chemilmager



Macroarray imaged with FluorChem



Northern blot imaged with FluorChem

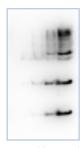


Southern blot imaged with FluorChem

## ChemiGlow substrate provides unsurpassed performance with the highest sensitivity.

No other substrate delivers this exceptional level of sensitivity and performance.

Using ChemiGlow substrate, femtogram detection levels are possible.



Western blot imaged with FluorChem with ChemiGlow substrate



Western blot imaged with FluorChem with Brand B substrate

Duplicate Western blots were prepared and detected utilizing ChemiGlow West Substrate and an acridan-based HRP substrate (Brand B). Under the conditions of the blots (, Sug/ml of the primary antibody, Rat anti-Mouse IL-2 and 3.33 ng/ml of the secondary antibody, Goat anti-Rat IgG HRP), detection was rapidly captured with a 1 minute exposure to the FluorChem™ CCD imaging system. ChemiGlow West substrate detected down to 62.5 femtogram of IL-2 where Brand B could only detect 1 ng of Il-2

### **Ordering Information**

Cat # Description

CGW-8000 ChemiĠlow West Substrate (100ml)

Contents: ChemiGlow West Luminol/Enhancer Solution, 50ml, ChemiGlow West Stable Peroxide Solution, 50 ml. This kit contains sufficient substrate for 800 cm2 of blotting membrane. \*Patent pending. Stable for 1 year at room temperature. For long-term storage, keep product at 4\*C. ChemiGlow West substrate's light emission wavelength is 425 nm.

Visit the AIC website at www.alphainnotech.com to order ChemiGlow substrate on-line



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