# AnshLite™ Luminogenic Substrate

*Enhanced chemiluminescence in peroxidase-based detection systems*

| Catalog No: | Description | Unit | Price |
|---|---|---|---|
| ALA-100A-1000 | Substrate Part A | 1000 mL | $630.00 |
| ALB-100B-1000 | Concentrate Catalyst Part B | 5 mL | $30.00 |
| | | | |
| ALA-100A | Substrate Part A | 12 mL | $35.00 |
| ALB-100B | Concentrate Catalyst Part B | 0.075 mL | $5.00 |

**For In Vitro Use Only**
**Store at 2-8°C**

AnshLite™ is a proprietary luminogenic substrate formulated for use with horseradish peroxidase (HRP)-based detection systems because of its high turnover rate, stability, ease of conjugation, and relatively low cost.

AnshLite enhances the sensitivity and dynamic range of many immunoassays methods.

It is a stable, glow-based chemiluminescence technology that can be used in cuvette or microtiter plate reaction vessels and has many advantages over other commonly used detection systems.

## Benefits of AnshLite™

- Improved Sensitivity
- Wide Dynamic Range
- Rapid Development
- Long Stable Glow
- High Signal-to-Noise

Please contact Ansh Labs to learn more about our full line of immunoassay products and services ▶▶▶

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## Material and Methods

The AnshLite substrate solution is a two-component system.

1. AnshLite Substrate A Buffer, Cat. No. ALA-100A-1000

1000 ml buffered solution containing diacylhydrazide derivatives, enhancer & stabilizers.

2. AnshLite Substrate B Concentrate, Cat. No. ALB-100B-5

5ml buffered solution with stabilized peroxide derivative

## Preparation of Working solution

1. Substrate Solution: Mix 1 part of AnshLite B in 1000 parts of AnshLite A (for example: 12 µL of AnshLite B in 12 mL of AnshLite A). The two components should be mixed thoroughly by gentle inversion at least 60 minutes prior to use.

**NOTE:** This premixed substrate solution is stable for 8 hours at 2-8°C. Substrate solution should be protected from excessive heat or direct sunlight.

## Stability and Storage

The reagents are stable for at least 12 months when stored at 2-8ºC. This reagent is provided as a sterile-filtered solution and does not contain any preservatives. Avoid contamination during storage and use.

## Application

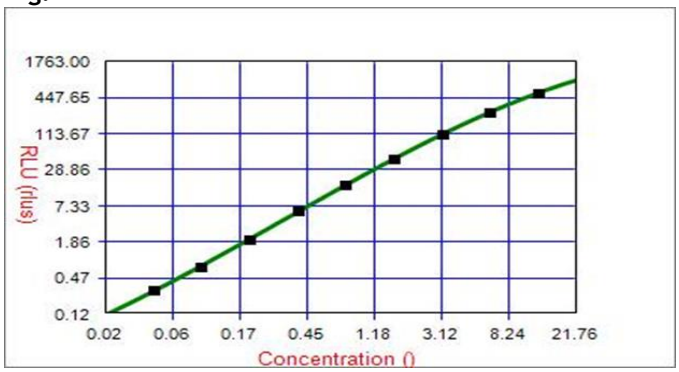
AnshLite™ Luminogenic Substrate provides the enhanced sensitivity and convenience associated with chemiluminescence. It has been proven in microtiter plate-based luminometric immunoassays.

## AnshLite Luminogenic Substrate Test Results

The AnshLite substrate has been evaluated on coated plates with horseradish peroxidase for enzymatic catalysis. Non-specific binding (NSB) of the substrate on a white plate is 400-600 RLU/10msec. NSB on antibody coated plates is between1000-1800 RLU/10msec.

The substrate solution when added to 10uL of 0.05-12.5pmol HRP solutions in microtiter wells resulted in a signal output of 0.3 x 10,000 to 550 x 10,000 RLU/10msec. The RLU response to the concentration of the HRP is shown in Figure 1 below.

**Fig. 1**




## Time-to-Read Profile

The time to read profile for AnshLite™ PAPP-A CLIA using the AnshLite substrate solutions is show below in Figures 2 and 3.

**Fig. 2**

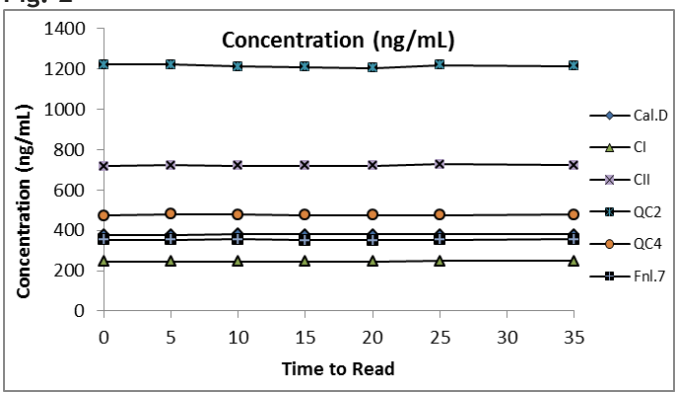
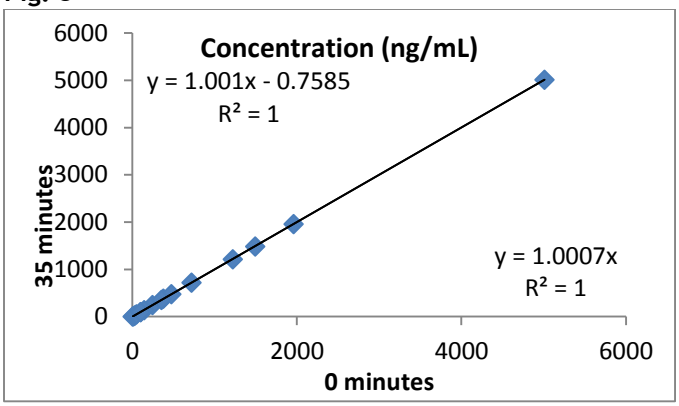



**Fig. 3**




## References


1. Thorpe, G.H.G. & Kricka L.J. Methods Enzymol. 1986, 133, 331
2. Thorpe, G.H.G., Kricka L.J, Moseley S.B. & Whitehead T.P. Clin. Chem. 1985, 31/8 1335.