



Chemiluminescent AP Select 450

Product Insert

Description

Chemiluminescent AP Select 450 is a highly sensitive chemiluminescent substrate designed for microwell or blotting applications.

Sensitivity

Chemiluminescent AP Select 450 has a wide detection range for alkaline phosphatase enzymes in solution or on a membrane. The detectable enzyme concentration can range from a few attograms to a few nanograms depending on the source of the alkaline phosphatase enzyme.

Stability and Storage

Chemiluminescent AP Select 450 is stable for 24 months when stored at 4°C. Recommended storage is 2 - 8°C.

Volume	Product #
200 mL	328175
500 mL	328176
1 L	328177

Appearance

Colorless solution

Recommended Handling

Neogen's Chemiluminescent AP Select 450 must be protected from extraneous sources of alkaline phosphatase, including exposure to environmental bacteria. When setting up an experiment, aliquot the required quantity of reagent into a clean, alkaline phosphatase free container. Discard excess reagent and do not return substrate to the stock reagent bottle. Alkaline phosphatase substrates are sensitive to light. The product is provided in an amber bottle, if storage outside of the original amber container is required, wrap aliquots with aluminum foil.



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Directions for Use

1. Equilibrate at room temperature for 30 minutes before use.
2. Do not contaminate substrate with any phosphate buffer.
3. Use only toxin free BSA as a blocking reagent for microplates or membranes to lower the background luminescence.
4. Quality of BSA can be checked with alkaline phosphatase substrate. Transfer 100 uL of substrate in a tube or microplate and record the background luminescence. Now add 10 uL of 0.1% BSA in tris buffer (pH 8.0 to 8.5) to 100 uL of substrate and check the background luminescence. If background does not change, the quality of BSA is excellent.
5. For good results, wash your tube, microplate or membrane with 0.2M tris buffer (pH 9.5 to 9.7) and then use the substrate.
6. Best results can be obtained 15 to 120 minutes after the substrate comes in contact with the alkaline phosphatase enzyme.

Cautions and Considerations

- Due to the high sensitivity of the substrate, the primary and secondary antibody concentrations may need to be decreased.
- Phosphate Buffers (PBS) should be avoided, as they interfere with alkaline phosphatase activity.
- Membranes should be handled while wearing clean gloves and using forceps to avoid increasing the background signal. Ensure there are no signs of rust on the forceps.
- Never pipette directly from the storage container or pour solution back into the container as this may contaminate the solution.

Technical Assistance

For technical assistance, please contact our Technical Services Department at (800) 477-8201 or techservice-lifesciences@neogen.com. Representatives are available Monday – Friday from 8:00 am – 6:00 pm EST.

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