

UptiLight™ UltraSensitive AP Chemiluminescent Substrates

Product Description

Luminol based chemiluminescent substrate solution for the detection of immobilized peroxidase.

Name :	UptiLight UltraSensitive AP-450 chemiluminescent substrate Chemiluminescent Ultra Sensitive Substrate for Alkaline Phosphatase in Microwell and/or Membrane application, with 450 nm reading (Attogram Range detection)
Catalog Numbers :	CV7530 , 100ml CV7531 , 250ml CV7530 , 500ml
Name :	UptiLight UltraSensitive AP-540 chemiluminescent substrate Chemiluminescent Ultra Sensitive Substrate for Alkaline Phosphatase in Microwell and/or Membrane application, with 540 nm reading (Attogram Range detection)
Catalog Numbers :	CV7540 , 100ml CV7541 , 250ml CV7542 , 500ml

Storage : +4°C, avoid direct light (L). Stable for a minimum of 18 months when stored at +4°C.

Introduction

Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm and 540nm readings) can detect alkaline phosphatase enzyme at attogram levels in a period of a few minutes. This chemiluminescent dioxetane based formulation is at least 10 times more sensitive than typical chemiluminescent reagents. It is designed for a wavelength with max emission at 450 nm or at 540nm. This reagent is safe and contains no organic solvents. Chemiluminescent Ultra Sensitive AP Substrates provide low background with a high signal to noise ratio. A steady glow is created with a long lasting light emission without signal decay for up to 4 hours. The reagent is convenient and ready to use one component formulation. Chemiluminescent Ultra Sensitive AP Substrates can be used in automatic or manual systems with a wide dynamic range (5 to 6 log dynamic range). Detection platforms can include a wide variety of solid and solution phase applications.

- **Ultimate sensitivity:** detect attograms !
- **High resolution:** highest signal with minimal background
- **Wide dynamic range**
- Requires **lowest quantities** of antigen and antibodies

Directions for use

Product Stability, Storage and Specifications:

Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) is stable for a minimum of 24 months from the date of manufacture when stored at 2°C - 8°C and protected from light. Storage is recommended at 2°C - 8°C. If storage outside of the original amber container is required, wrap aliquots with aluminum foil.

Guidelines for WesternBlotting and ImmunoAssay with UptiLight detection

- **Equilibrate** Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate at room temperature (25°C) for 30 minutes prior to use.

NOTE: Chemiluminescent Ultra Sensitive AP is extremely sensitive:

It must be **protected** from exposure to environmental bacteria and other sources of alkaline phosphatase enzymes and/or conjugates.

FT-CV7531

Dispense carefully into a working **clean container**, maintaining the fidelity of the stock solution (sterile technique may be considered). When setting up an experiment, aliquot the required quantity of reagent into a clean container.
Discard any excess reagent. **Do not return excess material to the stock reagent bottle.**

- Use only **blocking reagents** that are uncontaminated with residual alkaline phosphatase and toxin free. Such blocking reagents can be used for solid or solution phase applications to lower the background luminescence.
- Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate has a wide dynamic range to detect alkaline phosphatase enzyme in various solid or solution phase applications. The lower **enzyme concentration** may be at the attogram level and the highest concentration of alkaline phosphatase enzyme may be at the nanograms level depending on the source of enzyme.
- For quality results, **wash membrane with 0.2 M Tris buffer, pH 7.0 to 7.5**, prior to substrate use.
- Best results for chemiluminescence can be obtained from **15 - 120 minutes exposure** following contact.

References:

1. Childress, J.L., M. Acar, C. Tao, and G. Halder. 2006. Curr. Biol. 16:1.

Related products

See our our [BioScience catalog](#) for:

*other reagents for immunoblotting with UptiLight HRP :

AP-labeled secondary antibodies ([p.A324](#))

AP labeled (strept)avidins ([p.A350](#))

ProTran 0.2µm NC membranes, 20x20cm, [#S31441](#)

Blotting paper 1mm thick, 460x570cm, [#BP2791](#)

Stains: Protein Membrane Reversible stain [#20078A](#)

Antibody Stripping Buffer, [#L7710A](#)

Buffers and saturants (A365): SeaBlock agent [#UP40301A](#)

TBS buffer [UP74004A](#) (also available with non fat milk

[#GS4160](#), with Tween20 [#GS4200](#),...)

BSA [#UPQ84170](#) (powder) or [#UP900130](#) (soln 30%)

BioBlock Saturating agent for blotting (inTBS) [#N13650](#)

Non fat milk powder [#768701](#)

*other chemiluminescent substrates :

UptiLight classic HRP WB Substrate [#UP996190](#)

UptiLightOne HRP WB Substrate, spray [#BM4961/BM4963](#)

UptiLight HighSensitivity HRP WB Substrate [#98490A](#)

VisGlo AP WB Substrates [#BV3021](#), [#BV3031](#)

UptiLight HRP ELISA Chemilum. Subst.[#99620&36349A](#)

*other substrates for AP :

FDP [#FP-72573A](#)

FastRed tabs [#N13240](#)

AP Blue/Red fluorigenic substrate [#CB0131](#)&[#CB0131](#)

BCIP/NBT Chromogenic Substrate [#UP099851](#)

pNPP ELISA Chromogenic Substrate [#664780](#)(soln)

Other information

For any questions, please ask Uptima

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