

RayBiotech Spotlight Chemiluminescent HRP Membrane/Blotting Substrate (RB-SPTLGT)

Product Description:

RayBiotech Spotlight Chemiluminescent HRP Membrane/Blotting Substrate can detect horseradish peroxidase at extremely low femtogram levels. It is an ultra sensitive substrate. ImmunO₄ chemiluminescent substrates provide superior sensitivity compared to competitor products and are more economical. These reagents are stable for several days after mixing when stored at 4°C. The substrate is supplied as two components. Substrate may be used for any blotting application utilizing horseradish peroxidase (HRP) conjugates. The substrate can be used with various blocking buffers and on nitrocellulose or PVDF membranes. Detection and analysis may be done by CCD imaging systems or x-ray film.

Hazard Identification: Please see MSDS.

Product Stability, Storage and Specifications:

Spotlight Chemiluminescent HRP Membrane/Blotting Substrate shelf life is 18 months when stored in the dark at 2° C to 8° C. Keep container tightly closed. Store RayBiotech RB-SPTLGT away from heat or light.

Product Use:

MEMBRANE DIRECTIONS

1. Store the reagents, RB-SPTLGT-A and RB-SPTLGT-B, at 2-8°C. Mix equal volumes of RB-SPTLGT-A and RB-SPTLGT-B **in a clean container** and equilibrate to room temperature before use. For best results, wash membrane with 0.2M phosphate buffer, pH 8.4 to 8.6, prior to addition of substrate.
2. Do not contaminate the HRP enzyme substrate with HRP or other proteins. Never pipette directly from the RB-SPTLGT stock or pour aliquoted solution back into the stock vessels. Handle blots with clean gloves and clean forceps. Forceps contaminated with rust can lead to increased backgrounds.
3. Analytes can be applied to membranes as a dot blot or via gel transfer. Blotting conditions should be optimized for each assay system. RB-SPTLGT is extremely sensitive and very high HRP concentrations can “burn out” the substrate. Use approximately 100 uL of RB-SPTLGT working solution per square centimeter of membrane. Place membrane in a clean, dry vessel. Add working solution of RB-SPTLGT to the membrane and incubate at room temperature for optimal detection. Remove excess substrate by blotting on filter paper. Visualize by either x-ray film or a CCD imaging system. Optimal visualization may be obtained up to 20 minutes after substrate contact.

These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.
