

UptiLight HRP Blot Chemiluminescent ECL Substrate, Extended Duration (>24h), Mid Femtogram (10^{-14})

Reagent Description

Product Type	Reagents
Description	The UptiLight HRP Blot chemiluminescent reagent, Extended Duration for detecting proteins is extremely sensitive and has a high signal-to-noise ratio. This new non isotopic UptiLight system is a high performance chemiluminescent substrate for peroxidase. It enables less than 10 picograms of protein to be detected within 30 seconds to 1 minute on exposure to CCD-based imaging.
Principle	Chemiluminescence is defined as the light emitted by a chemical reaction. Horse radish peroxidase (HRP), in the presence of hydrogen peroxide, catalyses the oxidation of a cyclic diacyl hydrazide, such as luminol, to an excited reaction product which on spontaneous change to a stable form emits light. A dramatic increase in the light output can be achieved by the presence of enhancers.

Product Description

Buffer	Luminol-Enhancer solution Peroxide solution
Recommendations	Optimal antibody dilutions should be determined by the end user. The following are guidelines only : Primary antibody (1:1 000 - 1:15 000) Secondary antibody (1:10 000 - 1:150 000)
Storage	Stored at RT

Applications

Applications	Western Blot, Dot Blot
Preparation Method	To be used extemporaneously or can be kept at RT for few hours : Add 1 mL of Peroxide solution to 1 mL of Luminol-Enhancer solution. Detection : Immerse the membrane in UptiLight reagent from 1 to 10 minutes. Remove excess of reagent and cover the membrane with a plastic sheet before to exposure.