

Specification

CheLuminate-HRP PicoDetect

A3417

Product Code:	A3417
Product Name:	CheLuminate-HRP PicoDetect
Specifications:	<ul style="list-style-type: none"> • Very high stability; working solution is stable for 7 days at RT • Sufficient for 1200 cm² or 5000 cm², respectively • For detection of immobilized proteins (Western blot) and immobilized nucleic acids (Southern and Northern blot) • Perfect chemiluminescent substrate for highly expressed proteins • Superior for standard Western blot detection on autoradiography film • Picogram limit of detection bears a low risk of signal saturation and background problems
WGK:	nwg
Storage:	2-8°C protected from light
CS:	38220000
Comment	<p>CheLuminate-HRP PicoDetect is a ready-to-use two-component system for chemiluminescent detection of immobilized proteins and immobilized nucleic acids conjugated with horseradish peroxidase (HRP) directly or indirectly. In the presence of hydrogen peroxide, Horseradish Peroxidase (HRP) catalyzes the light generating oxidation of cyclic diacylhydrazides (such as luminol) and acridine derivatives. The enhanced HRP-catalyzed oxidation of luminol is a complex multi-step reaction. Enhancers are useful in improving enzyme turnover and increasing the equilibrium concentration of a key intermediate, the luminol radical anion. The CheLuminate-HRP PicoDetect kit corresponds to the classic chemiluminescence substrates based on phenolic enhancers and is comparable to the ECL System in terms of chemistry. Due to its picogram detection limit, this product is the substrate of choice for highly expressed proteins in combination with economical (standard) antibodies. CheLuminate-HRP PicoDetect bears a low risk of signal-saturation which simplifies signal detection via autoradiography film. 1-2 hours of light emission allow sufficient time to optimize exposure conditions.</p>
Bibliography	<p>(1)Thorpe, G.H.G. <i>et al.</i> (1985) <i>Clin. Chem.</i> 31, 1335-1341 Phenols as "Enhancer" of the chemiluminescence reaction with horseradish peroxidase. (2)Thorpe, G.H.G. & Kricka, L.J. (1986) <i>Methods Enzymol.</i> 133, 331-353 "Enhanced Chemiluminescent" reactions, catalyzed by horseradish peroxidase.</p>

AppliChem GmbH

Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • info.de@itwreagents.com • www.itwreagents.com
 CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340