



Europa Bioproducts Ltd

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Alkaline Phosphatase Labeling Kit-SH

Item#	Unit Size
LK13-10	3 samples (labeling 100 ug)
LK61-10	1 sample (labeling 1 mg)



Only 3 hours to get conjugates

All processes in a single filtration tube

High recovery of conjugates

Contents of the Kit

LK13-10

SH-reactive ALP*	:100 µg x 3 tubes	Reducing agent	:3 tubes
Solution A	:4 ml x 1 bottle	Solution B	:1 ml x 1 tube
Reaction buffer	:200 µl x 1 tube	Storage buffer	:4 ml x 1 bottle
Filtration tube	:3 tubes		

LK61-10

SH-reactive ALP*	:1 mg x 1 tube	Reducing agent	:1 tube
Solution A	:10 ml x 1 bottle	Solution B	:4 ml x 1 bottle
Reaction buffer	:0.6 ml x 1 tube	Storage buffer	:10 ml x 1 bottle
Filtration tube	:1 tube	15 ml tube	:1 tube

* ALP: alkaline phosphatase

Storage Condition: 0-5°C

Shipping Condition: ambient temperature

Required Equipment and Materials

LK13-10: microcentrifuge, 50-200 µl adjustable pipette, 37°C incubator, 0.5 ml microtubes

LK61-10: centrifuge, rotor for 15 ml centrifuge tube, 50-200 µl and 1 ml adjustable pipettes, 37°C incubator, microtubes



CERTIFICATE NO. 3222

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Product Description

Alkaline Phosphatase Labeling Kit-SH is used mainly for the preparation of alkaline phosphatase-labeled IgG for enzyme immunoassay (EIA) and for the preparation of alkaline phosphatase-labeled antigen for competitive EIA. SH-reactive ALP, a component of this kit, can react with the thiol groups of proteins or other molecules (Fig.1). This kit contains all the reagents necessary for the labeling process, including reducing agent and storage buffer. SH-reactive ALP forms a covalent link with the target molecule. Reducing agent can create free thiol groups in the IgG molecule. The labeling efficiency of the SH-reactive ALP is high enough to eliminate any purification process after labeling when the alkaline phosphatase-labeled IgG is used for EIA. If a high-purity conjugate is required after labeling, simply use an affinity column or a gel-permeation column. When labeling small molecules, excess molecules can be removed by using the filtration tubes included in this kit.

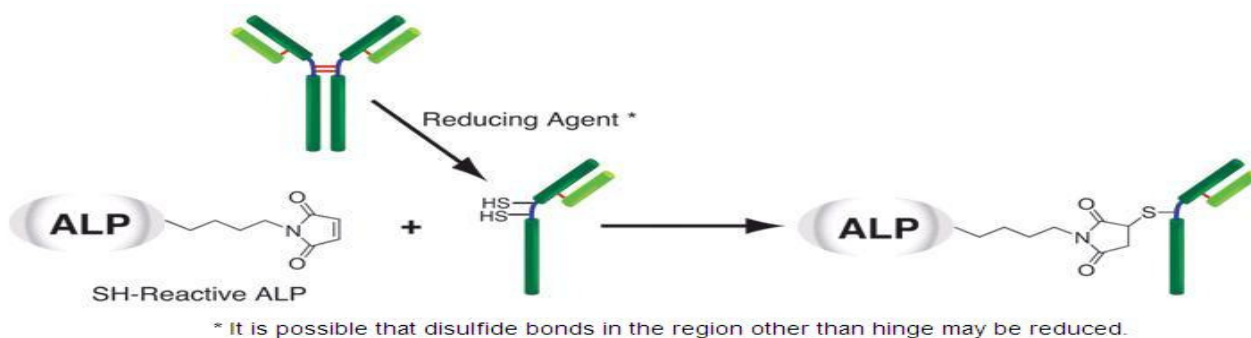


Fig.1 IgG labeling reaction of SH-reactive peroxidase

Precaution

- ◆ The molecular weight of the reduced protein to be labeled with this kit should be greater than 50,000.
- ◆ The molecular weight of the small amine compound to be labeled with this kit should be smaller than 5,000.
- ◆ IgG or alkaline phosphatase-conjugated IgG is always on the membrane of the filtration tube during the labeling process.
- ◆ If the IgG solution contains other proteins with molecular weight larger than 10,000, such as BSA or gelatin, purify the IgG solution prior to labeling alkaline phosphatase with this kit. IgG solution can be purified by IgG Purification Kits (not included in this kit).
- ◆ If the IgG solution contains small insoluble materials, centrifuge the solution and use the supernatant for the labeling.



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