



Europa Bioproducts Ltd

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Biotin Labeling Kit-SH

Item#	Unit Size
LK10-10	3 samples (labeling 100 ug)
LK57-10	1 sample (labeling 1 mg)



Only 3 hours to recover conjugates

All processes in a single filtration tube

High recovery of conjugates

Applicable for 50-200 µg IgG

Contents of the Kit

LK10-10

SH-reactive biotin	:3 tubes	WS buffer	:4 ml x 1 bottle
Reducing agent	:3 tubes	Reaction buffer	:1 ml x 1 tube
Filtration tube	:3 tubes		

LK57-10

SH-reactive biotin	:1 tube	WS buffer	:13 ml x 1 bottle
Reducing agent	:1 tube	Reaction buffer	:6 ml x 1 tube
Filtration tube	:1 tube	15 ml tube	:1 tube

Storage Condition: 0-5°C

Shipping Condition: ambient temperature

Required Equipment and Materials

microcentrifuge, 10 µl and 100-200 µl adjustable pipettes, 37°C incubator, 0.5 ml microtubes, DMSO

Product Description

Biotin Labeling Kit-SH is mainly used for the preparation of biotin-labeled IgG for enzyme immunoassay (EIA). SH reactive biotin, a component of this kit, reacts with sulfhydryl groups of proteins or other molecules (Fig. 1). The kit contains all the reagents necessary for the labeling. The reducing agent included in this kit creates sulfhydryl groups in the IgG molecule. Because the reducing agent is a water-soluble phosphine compound, it can be removed by a filtration tube with a simple process. An average of 5 to 8 biotin molecules conjugate to each IgG molecule. The number of biotin molecules per protein can be determined by HABA assay. Excess biotin molecules can be removed by a filtration tube.



CERTIFICATE NO. 32423

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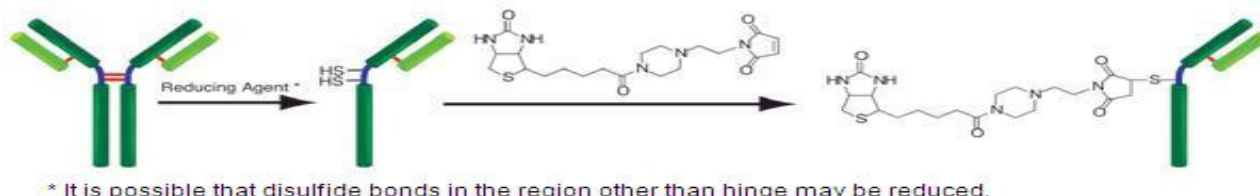


Fig. 1 IgG labeling reaction with SH-reactive biotin

Precaution

- ◆ The molecular weight of the reduced protein to be labeled with this kit should be greater than 50,000.
- ◆ IgG or biotin-conjugated IgG is always on the membrane of the filtration tube during the labeling process.
- ◆ If the IgG solution contains other proteins with molecular weights larger than 10,000, such as BSA or gelatin, purify the IgG solution before labeling biotin 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.



CERTIFICATE NO. 82423

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