Europa Bioproducts Ltd

15-17 North Street • Wicken
Ely • Cambridge • CB7 5XW

Tel: 0044 (0)1353-721118
Fax: 0044 (0)1353-624589

R-Phycoerythrin Labeling Kit-NH2

Item#	Unit Size
LK23-10	3 samples (labeling 100 ug)

Only 3 hours to get conjugates

All processes in a single filtration tube

High recovery of conjugates Applicable for 50-200 µg IgG

Contents of the Kit

NH_2-reactive R-PE	3 tubes	WS buffer	4 ml x 1 bottle
Reaction buffer	200 µl x 1 tube	Filtration tube	3 tubes

*R-PE: R-phycoerythrin

Storage Condition: 0-5ºC
Shipping Condition: blue ice

Required Equipment and Materials

Microcentrifuge, 10 µl and 100-200 µl adjustable pipettes, 37ºC incubator, 0.5 ml microtubes

Product Description

Phycobiliproteins are fluorescent proteins derived from cyanobacteria and eukaryotic algae. Their fluorescence is much higher than chemical fluorescent probes such as fluorescein and rhodamine. R-Phycoerythrin (R-PE) is one of the phycobiliproteins and has a red fluorescence at around 578 nm, and it can be excited at 488nm (Fig. 1). Because of this high fluorescence, phycobiliprotein labeled antibodies, and other molecules can provide greater sensitivity in flow cytometry and immunostaining. R-phycoerythrin Labeling Kit-NH_2 is for simple and rapid preparation of R-PE-labeled IgG (Fig. 2). NH_2-reactive R-PE (a component of this kit) has an activated ester group and can easily make a covalent bond with an amino group of the target molecule without any activation process. The filtration tube in this kit allows a quick buffer exchange and concentration of sample IgG solution. This kit contains all of the reagents necessary for

Europa Bioproducts Ltd

15-17 North Street • Wicken
Ely • Cambridge • CB7 5XW

Tel: 0044 (0)1353-721118
Fax: 0044 (0)1353-624589

R-PE labeling, including the Storage buffer for conjugates.

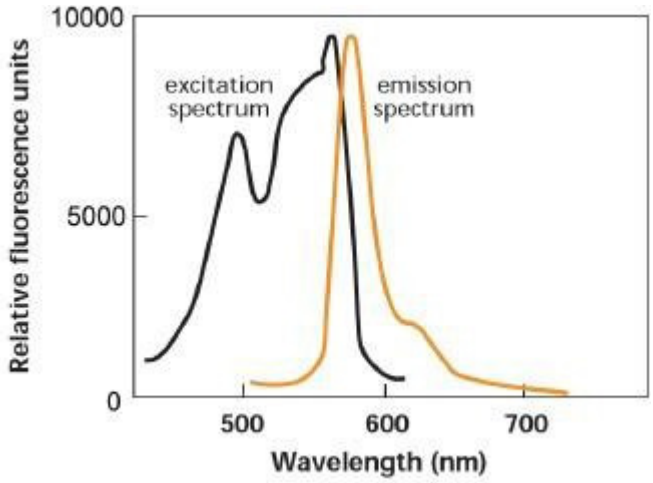

Fig. 1 Fluorescence spectrum of R-PE
Excitation wavelength: 566 nm
Emission wavelength: 578 nm

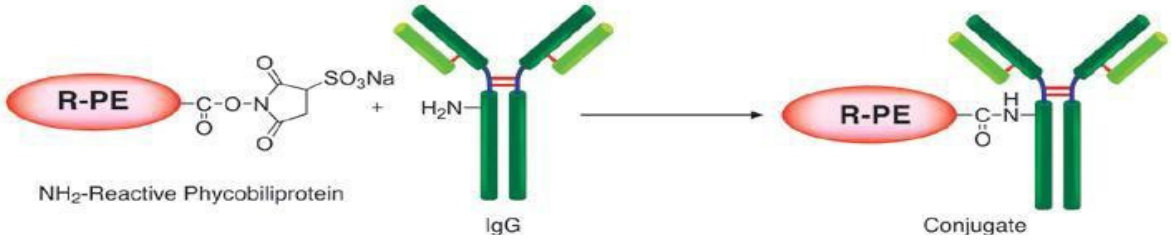

Fig. 2 IgG labeling reaction of NH2-reactive R-PE

E.mail: info@europa-bioproducts.com
Web site: http://www.europa-bioproducts.com
Registered Office: 15-17 North Street, Wicken, Ely, Cambridgeshire CB7 5XW
Registered Number: 2703381

CERTIFICATE NO. 32473