



## Maleimide Rapid Assay Kit

### Product Information

#### Cat.No.

Kit-0535

#### Product Overview

Maleimide Assay Kit (Rapid) is a quantitative assay for the quantification of maleimide groups.

#### Description

A variety of crosslinking reagents with a maleimide group are widely used for crosslinking proteins to proteins, or proteins to other biomolecules. A key challenge in maleimide crosslinking technology has been the development of reliable and reproducible methods for quantitation the amount of maleimide linked to a single protein or antibody. Maleimides can be directly assayed spectrophotometrically at 302 nm. However, the small extinction coefficient of  $620 \text{ M}^{-1} \text{ cm}^{-1}$  renders this assay insensitive, and the assay is further complicated by the protein absorbance at the same wavelength. There are a few methods available for quantitating the number of maleimide groups by indirect ways. And in many cases, the maleimide ratio is only estimated by experience.

#### Applications

Maleimide Assay Kit (Rapid) provides an accurate method to quantify maleimide group by our maleimide sensor Maleimide Blue with the maximum absorbance at  $\sim 780 \text{ nm}$ .

#### Usage

For research use only (RUO)

#### Storage

Upon receipt, store Maleimide Blue (Component A) the kit at  $2-6^\circ\text{C}$ , kept from light and moisture. When stored properly, the kit components should be stable for six months. Note 1: Do not freeze Spin Column (Component C). Note 2: Warm all the components before run the required assays. 50 to 100  $\mu\text{g}$  maleimide-linked antibody or protein sample is needed for determining the amount of maleimide.

#### Kit Components



CREATIVE BIOMART<sup>®</sup>  
Assay Kit

## Maleimide Rapid Assay Kit

Component A: Maleimide Blue (One vial is for 50 ~100  $\mu$ g maleimide-linked antibody or protein)  
2 vials  
Component B: Assay Buffer 15 mL  
Component C: Spin Column 2 columns  
Component D: Washing Tube 2 mL  
Component E: Collecting Tube 1.5 mL

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**Detection method** Colorimetric

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**Compatible Sample Types**

Polymers, Proteins

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