



# Technical Data Sheet

## Lyophilized R-Phycoerythrin (Lyo RPE)

### Specification

$A_{565}/A_{280} \geq 5.5$   
 $A_{565}/A_{496} \leq 1.5$   
 $A_{620}/A_{565} \leq 0.005$

### Property

Molecular Weight	240 kDa
Absorption Maximum	565 nm
Emission Maximum	575 nm

### Package

10 mg RPE lyophilized powder in MiliQ water with sugar as additive.

### Description

Lyo RPE is lyophilized powder of phycobiliprotein isolated from our proprietary red algae. It is made up of  $(\alpha\beta)_6\gamma$  subunit structure. No ammonium sulfate or other material may interfere conjugation is contained in this product.

### Reconstitution

Reconstitute whole bottle of Lyo RPE (10 mg) with your conjugate buffer to adjust the concentration for further conjugation use.

### Important Notes

Weight: One bottle of Lyo RPE contains about 10 mg of RPE with sugar as protective. It is not accurate to measure RPE directly by weight. To get an accurate weight of RPE, we recommend use its extinction coefficient as measurement (i.e.  $[RPE]=0.12245 \times A_{565}$ , where  $[RPE]$  is in mg/ml and  $A_{565}$  is the absorbance at 565 nm, as long as  $A_{565}$  is in the range of 0.3 to 0.8).

Usage: No preservative is added in the product. Once reconstitute it, please use it as soon as possible.

### Storage

Store Lyo RPE in dark at 2~8°C with desiccant; if possible, in desiccant. Do not freeze. For research or further manufacturing use only.