

— PROTOCOL —

R-Phycoerythrin (R-PE)

Catalog Number	Unit Size
MZ-002MG	2mg
MZ-100MG	100mg
MZ-500MG	500mg

PurityA566/A280 \geq 5.5A566/A498 \leq 1.5**Impurity**A620/A566 \leq 0.005

Storage : Store at 4 ° C for at least 12 months from the date of receipt. Do not freeze. For research or further manufacturing use only.

Molecular Property**Molecular Weight**

240 kDa

Absorption Maximum566 nm \pm 2nm**Emission Maximum**575 nm \pm 2nm**Description**

Our R-PE is a phycobiliprotein purified from our proprietary red algae and supplied in 100 mM sodium phosphate buffer at pH7.0. It exhibits (1) an excellent stability, (2) high water solubility, (3) extremely high quantum efficiencies, (4) ease of conjugation with antibodies and proteins of interest, (5) distinguishable large stoke shifts (broad-range excitation and emission bands at visible wavelengths).

Storage Buffer

1L PBS buffer containing ingredients:

0.2 g of KCl, 1.44 g of Na₂HPO₄, 0.24 g of KH₂PO₄, 0.5844g of NaCl**Preparation before Use**

For R-PE stored in the ammonium sulfate solution: R-PE needs to be re-suspended until no visible precipitates. Firstly, it must be extensively dialyzed prior to use or refined through the column to remove any remaining ammonium sulfate. Use PBS or your conjugation buffer (1 ml of R-PE to 1 liter buffer) to dialyze at least two

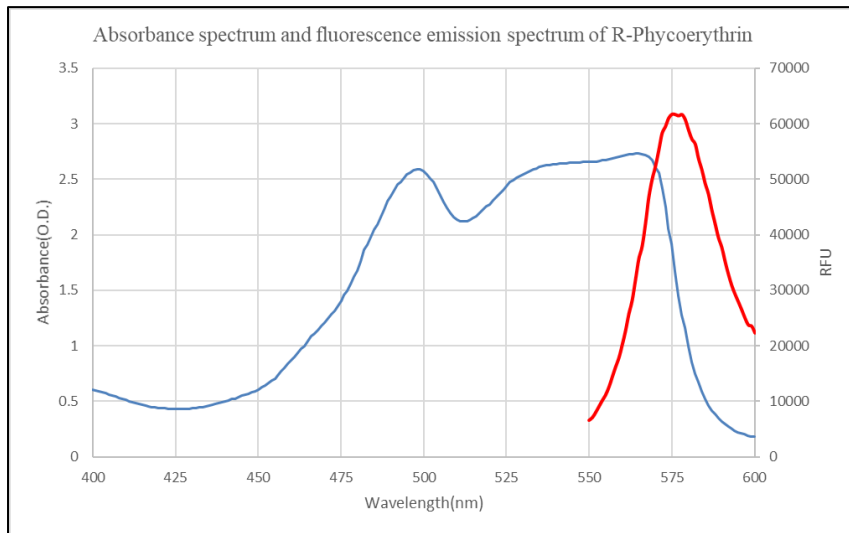
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changes of buffer.

For R-PE stored in the PBS buffer

The phycoerythrin in PBS buffer may be used as received.

Excitation and Emission Spectra



Place of Origin

Taiwan