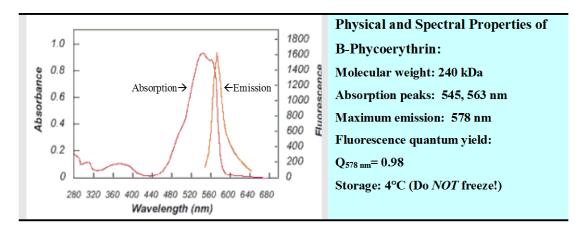


## **B-Phycoerythrin**



## Catalog Number: AS-82001

Size: 1 mg

**Description:** B-PE (B-Phycoerythrin),<sup>1</sup> a fluorescent protein, belongs to the phycobiliprotein family of highly soluble and fluorescent proteins derived from cyanobacteria and eukaryotic algae. B-PE is made of  $\alpha$ ,  $\beta$  and  $\gamma$  subunits and is present as  $(\alpha\beta)_6\gamma$ . The absorption bands peak at 545 nm ( $\epsilon_M = 2.41 \times 10^6 \text{ M}^{-1}\text{cm}^{-1}$ ) and 563 ( $\epsilon_M = 2.33 \times 10^6 \text{ M}^{-1}\text{cm}^{-1}$ ).<sup>1,2</sup> B-PE and the closely related R-PE are the most intensely fluorescent phycobiliproteins. They are significantly brighter and more photostable than conventional organic fluorophores.<sup>3</sup> B-PE labeled streptavidins, primary and secondary antibodies have been widely used in applications such as flow cytometry and multi-color immunofluorescent staining.

B-PE is supplied in sodium phosphate buffer, pH 7.0 with ammonium sulfate. The protein is very stable and can be stored for years in this buffer.

Before use, centrifuge the B-PE suspension at 10,000g for 10 min at 4°C. Discard the supernatant. Resuspend the pellet (B-PE) into the desired buffer. Desalt the sample using either Sephadex G-25 or dialysis. Store B-PE at 4°C and keep away from light.

## References

- 1. Glazer, AN. and CS. Hixson, J. Biol. Chem. 252, 32 (1977).
- 2. Lundell, DJ. et al. J. Biol. Chem. 259, 5472 (1984).
- 3. Oi, VT. et al. J. Cell Biol. 93, 981 (1982).