



SureLight® Allophycocyanin (APC) Certificate of Analysis

Product Number D3-000
Amount 1 mg
Concentration: 25.10 mg/ml
Store at 2-8° C

Form/Shipping & Storage

Supplied as liquid. Upon receipt, store at 2-8° C.
DO NOT FREEZE.

Handling

We recommend that the investigator determine the appropriate working concentration for their specific application. Avoid exposure to heat and light.

Buffer

50mM Sodium Phosphate (pH 7.0) +
50% Ammonium Sulfate

Stability

Product should be stored at 2-8°C in the dark.
Product is stable for up to 4 years depending on treatment by end-user.

Note

For research use only, not for diagnostic or therapeutic use.

General Information on APC:

- Approximate molecular weight 105,000 kDa
- Subunit structure $(\alpha\beta)_3$
- Absorbance/excitation maximum
- 650 nm \pm 3nm
- Emission maximum
- 660 nm \pm 3nm

Minimum ratio values:

$A_{650}/A_{280} \geq 4.5$

$A_{650}/A_{620} \geq 1.40$

Lot Specific values:

Absorbance/Excitation maximum 652.5 nm

Emission maximum 659 nm

A_{650}/A_{280} 4.97 A_{650}/A_{620} 1.52

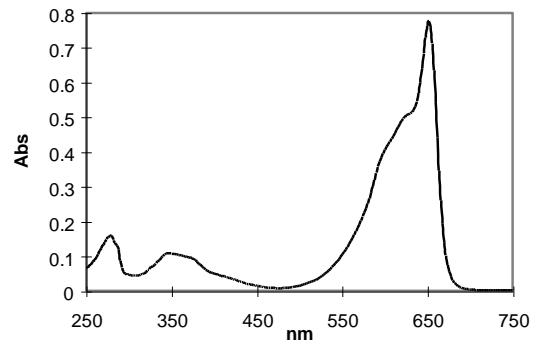


Figure 1. Absorbance spectrum of 0.1 mg/mL in 100 mM sodium phosphate (pH 7.0) and 0.05% sodium azide.

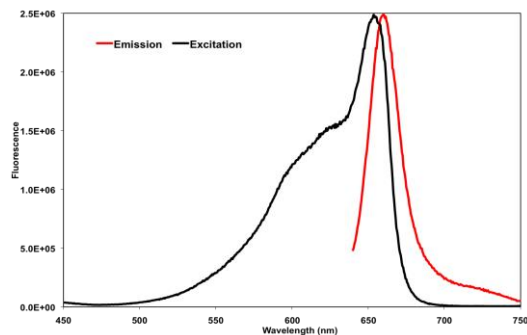


Figure 2. Normalized fluorescence emission and excitation spectra of sample at 0.167 μ g/mL in 100 mM sodium phosphate (pH 7.2) and 0.05% sodium azide.