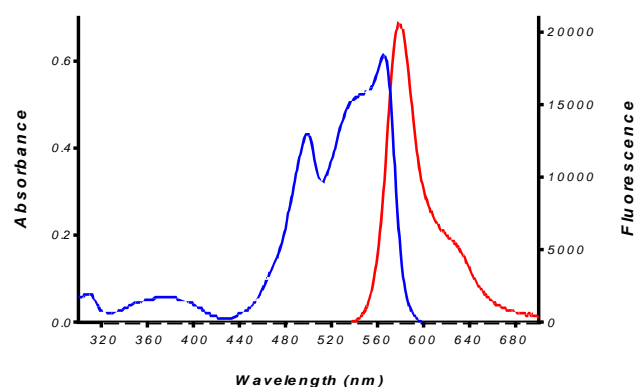


Certificate of Analysis

HomeALG SMCC R-phycoerythrin (SMCC R-PE)

<u>PO No.</u>	HA-202
<u>Lot No.</u>	
<u>Concentration</u>	(>10 mg/ml)
<u>Store at</u>	2-8°C
<u>Expiration date</u>	Mar. 2026
<u>Handling</u>	Avoid exposure to heat and light.
<u>Buffer</u>	100 mM sodium phosphate buffer pH 7.0 with 2 mM EDTA, 2 mM sodium azide.
<u>Note</u>	For research use only, not for diagnostic or therapeutic use.
<u>Results</u>	SMCC-RPE is treated with SMCC under conditions that only 1~3 SMCC on one RPE ensuring the best yield of conjugate with minimal aggregates.
<u>Package</u>	
<u>Performed by</u>	Sign:

Introduction of HomeALG SMCC R-phycoerythrin (SMCC R-PE)



Physical and Spectral Properties of Activated R-PE:

Molecular weight: 240 kDa

Absorption peaks: 496, 546, 565 nm

Maximum emission: 578 nm

— Absorption

— Emission

Storage: 4°C (Do NOT freeze!)

The HomeALG Sulfo-SMCC R-phycoerythrin (Sulfo-SMCC R-PE) provides a convenient way to conjugate protein to R-phycoerythrin (R-PE). R-PE belongs to the phycobiliproteins family of highly soluble and fluorescent proteins derived from cyanobacteria and eukaryotic algae. R-PE is made of α , β and γ subunits and is present as $(\alpha\beta)_6\gamma$. The protein has broad absorption bands with peaks at 496 nm, 546 nm, and 565 nm. It can be excited with versatile excitation sources. The broad excitation spectrum provides the advantage for multi-color immunofluorescent staining and cell sorting.

The HomeALG Sulfo-SMCC R-phycoerythrin (Sulfo-SMCC R-PE) is a SH-reactive group. Modified R-phycoerythrin can easily react with SH groups of a target antibody without the need for an additional activation, thus simplifying the conjugation. Modified R-PE and sulfhydryl group on the antibody form a covalent bond during conjugation.