

# CERTIFICATE OF ANALYSIS

**Product Name:** Native SHC Protein (Shrimp Hemocyanin, non-Activated, KLH substitution)  
**Cat.No:** SH2170-100  
**Lot.No:** 56A61002  
**Production Date:** 06/12/2025  
**Expiry Date:** 06/12/2026  
**Storage Temperature:** Store at -20°C

Parameter	Specification	Result
Appearance	Pale blue, lyophilized powder, dry and free of foreign material	Conforms
Solubility	At a concentration of 20 mg/mL in Ultrapure water, sample is clear to turbid blue solution	Conforms
Protein content	100±10 mg per vial	110 mg
Protein purity	≥98%	Conforms
Conjugate situation	It can be used for hapten conjugation	It can be used for hapten conjugation. The shrimp hemocyanin molecule has 36 primary amines and carboxyl groups. In this experiment one molecule shrimp hemocyanin can conjugate 17~30 molecules of Flag peptides

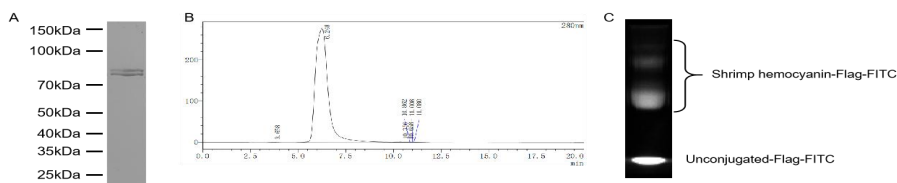


Figure A: SDS-PAGE

Figure B: The HPLC chromatogram

Figure C: Fluorescence results of shrimp hemocyanin conjugated with Flag-FIT

Quality authorized by: *Esther Zhang*

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