

CERTIFICATE OF ANALYSIS

Product Name: Native SHC Protein (Shrimp Hemocyanin, SMCC-Activated, KLH substitution)
Cat.No: SH2172
Lot.No: A3101
Production Date: 12/03/2025
Expiry Date: 12/03/2026
Storage Temperature: Store at -20°C

Parameter	Specification	Result
Visual appearance	Turbid blue, lyophilized pellet, dry and free of foreign material	Conforms
Solubility	At a concentration of 50 mg/mL in Ultrapure water, sample is clear to pale blue solution	Conforms
Protein content	11.0 mg/vial	Conforms
Protein purity	≥98%(Figure A and Figure B)	Conforms
Conjugate situation	The shrimp hemocyanin comprises of two subunits. One subunit has 36 primary amines and carboxyl groups. By analysis of FITC fluorescence percentage (Figure C), one molecule of shrimp hemocyanin subunits can conjugate 17~30 molecules of Flag peptides	Conforms

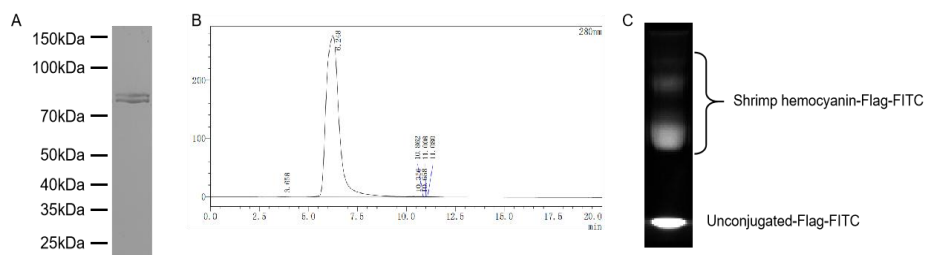


Figure A: SDS-PAGE

Figure B: HPLC chromatogram

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

Quality authorized by: *Esther Zhang*

Issue date: 14/03/2025

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