

CERTIFICATE OF ANALYSIS

Product Name: Native SHC Protein (Shrimp Hemocyanin, non-Activated, KLH substitution)
Cat.No: SH2170-10
Lot.No: 56B4103
Production Date: 04/13/2026
Expiry Date: 04/13/2028
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	10±1 mg per vial	11mg
Protein purity	≥98% (Figure A and Figure B)	Conforms
Conjugate situation	It can be used for hapten conjugation	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 approximately 24 molecules of Flag peptides

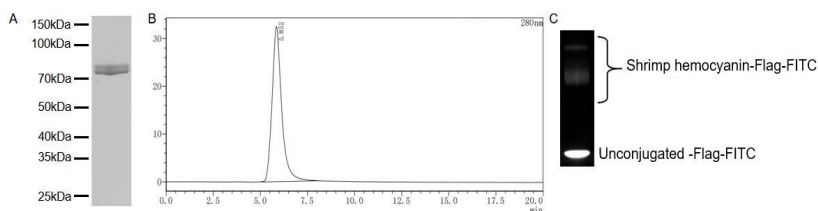


Figure A: SDS-PAGE

Figure B: The HPLC chromatogram

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

Quality authorized by: *Esther Zhang*

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