

## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** A86853H **Lot #:** 6J27517

**Description:** Troponin I–Cardiac > 95% Pure  
Cardiac Troponin I (cTnI), > 95% Pure

**Source:** Human Heart Tissue

**Format:** Purified, Lyophilized  
Reconstitute in Urea/Tris Buffer, pH 7.5 (7 M Urea, 5 mM EDTA, 15 mM Mercaptoethanol, 20 mM Tris) to a concentration of approximately 1 mg/mL. Solubility is limited at neutral pH and physiological salt concentration.

**Purification:** > 98% pure (SDS-PAGE).  
Immunological activity confirmed by reaction with monoclonal antibody that is specific for the troponin I cardiac isoform in immunoblotting.

**Concentration:** Determined prior to lyophilization ( $OD_{280nm}$ ,  $E^{0.1\%} = 0.42$ ).  
This coefficient was calculated from the amino composition of human cTnI (FEBS Lett, 270, 57-61).  
It is recommended that the product should be reconstituted in Urea/Tris Buffer, pH 7.5 (7 M Urea, 5 mM EDTA, 15 mM 2- Mercaptoethanol, 20 mM Tris) to a concentration of approximately 1 mg/mL. Solubility is limited at neutral pH and physiological salt concentration.

**Buffer:** Lyophilized from 0.01 M HCl.

**Preservative:** None

**Applications:** Suitable for use as a standard in Immunoassay, Immunogen for antisera production, and tracer for iodination. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** Upon receipt, store lyophilized product at  $-70^{\circ}C$ . After reconstitution, store at  $-70^{\circ}C$ . Avoid multiple freeze/thaw cycles.

**Inactivation:** Not Applicable

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.



Quality Signature:

14 November 2022

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**