

Life Diagnostics, Inc.

610-431-7707 • Fax: 610-431-7818

Info@lifediagnostics.com • www.lifediagnostics.com

Guinea Pig Cardiac Troponin-I

Catalog No.	7710
Analysis	SDS PAGE: ~24 kDa band.
Purity	≥95%
Concentration	0.5 - 2 mg/ml (Bradford assay vs. BSA)
Buffer	8 M Urea, 50 mM TrisCl (pH 7.4), 2 mM EDTA, 15 mM β-mercaptoethanol
Storage	-20 to -70°C
Source	Fresh frozen Guinea Pig heart

Troponin I (TnI) is one of three subunits that form the troponin complex of the thin filaments of striated muscle. The troponin complex serves as a calcium-sensitive switch that regulates striated muscle contraction. Troponin I binds actin and inhibits actomyosin ATPase activity in the absence of calcium. Cardiac troponin I is characterized by a molecular weight of ~24 kDa. It is expressed only in the heart and has proved to be a specific biomarker for cardiac muscle damage. Cardiac troponin-I is purified at Life Diagnostics by ion-exchange chromatography in conjunction with calcium dependent affinity chromatography on troponin-C agarose.

P.O. Box 5205 • West Chester PA 19380 • USA