

# ***Life Diagnostics, Inc.***

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## ***Canine Cardiac Troponin-I***

Catalog No.	7310
Analysis	SDS PAGE: ~24 kDa band.
Purity	≥95%
Concentration	0.25 - 2 mg/ml
Buffer	8 M Urea, 50 mM TrisCl (pH 7.4), 100 mM NaCl, 2 mM EDTA, 5 mM β-mercaptoethanol (may also contain ~0.5 mM CaCl <sub>2</sub> )
Storage	-20 to -70°C
Source	Fresh frozen canine cardiac muscle

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 by ion-exchange chromatography in conjunction with calcium dependent affinity chromatography on troponin-C agarose.

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