

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

610-431-7707 • Fax: 610-431-7818

Info@lifediagnostics.com • www.lifediagnostics.com

## ***Cynomolgus Monkey Cardiac Troponin-I***

|               |   |
|---------------|---|
| Catalog No.   | 7610  |
| Analysis      | SDS PAGE: ~24 kDa band. Minor low molecular weight TnI fragments may be apparent  |
| Purity        | ≥90%  |
| Concentration | 0.25 - 2 mg/ml (Bradford assay vs. BSA)   |
| 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 cynomolgus monkey cardiac tissue   |

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.

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