



**CANINE**



**Vcheck  
TnI**



## A Quantitative Marker Testing for Cardiac Injury or Damage

The Vcheck TnI biomarker is an in vitro diagnostic test kit for the in-clinic quantitative measurement of canine Troponin I. The cardiac Troponin I (TnI), is a sensitive and specific circulating marker of cardiac damage in canines. Included in the greater Troponin complex, Troponin I, T, and C, function together as the molecular switch of cardiomyocyte contraction. Cardiac injury leads to the release of cardiac TnI into circulation, where its concentration correlates with the degree of cardiac damage. Heart disease can increase the TnI levels and create ongoing myocardial injury, so frequent monitoring is critical.

## Clinical Applications

- Increased TnI indicates rising severity of mitral valve disease (MMVD)
- Detects early phases of dilated cardiomyopathy (DCM)
- Provides prognostic information regardless of the underlying cardiac or noncardiac disease

## Specifications

<b>Species</b>	Canine
<b>Sample Type</b>	Serum 100 µl
<b>Measurement</b>	Quantitative
<b>Range</b>	0.01 - 20 ng/ml
<b>Testing Time</b>	10 minutes
<b>Storage Condition</b>	1 - 30° C

## Simple Testing Procedure



### Dilute Sample

Add 100 µl of the sample to the assay diluent tube.



### Mix

Use the same pipette to mix the sample with diluent by pipetting 5 - 6 times.



### Measure

Add 100 µl of the mixed sample to the sample well of the test device and press [START].

**Product Name**

Vcheck Canine TnI

**Product Number**

VCF137DC

**Product Type**

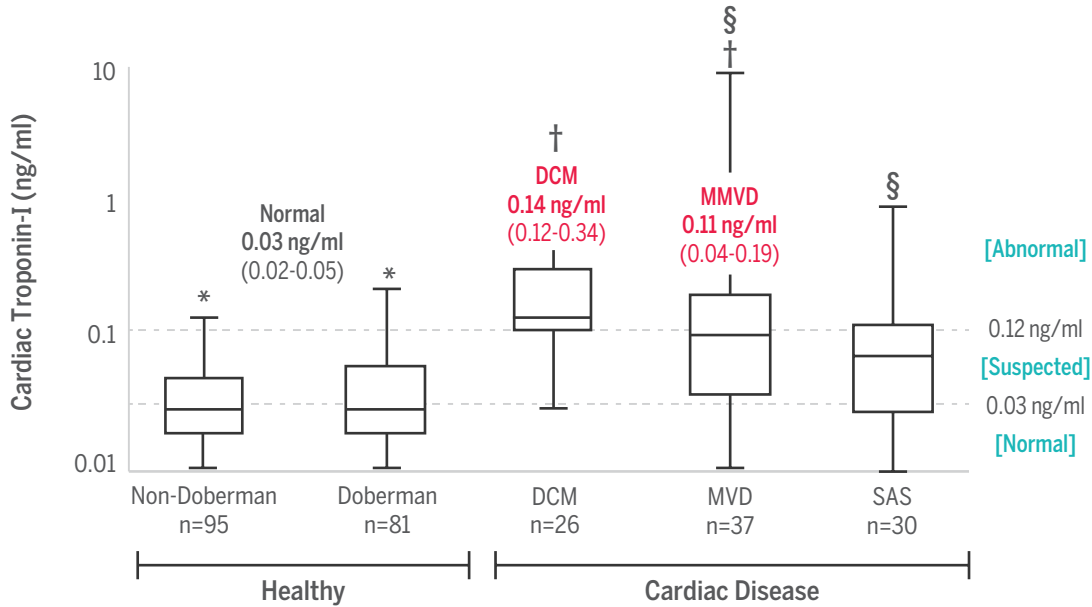
Device

**Packing Unit**

5 Tests/Kit

# A Closer Look: TnI

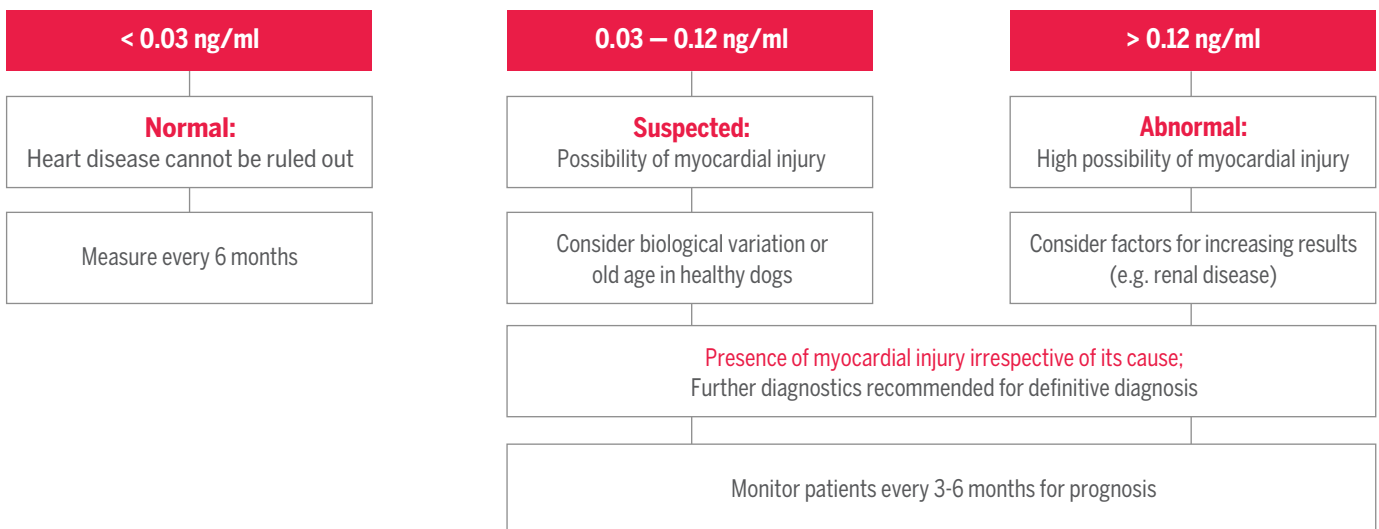
The Vcheck Canine TnI test kit is a fluorescent immunoassay for the quantitative measurement of Canine Troponin I concentration. After cardiac injury, a rise of Troponin complex can be detected within 2-3 hours, and peak concentration is frequently reached in 18-24 hours. The Vcheck TnI test kit checks for this damage quickly and accurately so proper care can be administered.



Journal of Veterinary Internal Medicine 2004; 18:831-839

## Specific Clinical Application

Troponin levels reflect heart muscle injury from cardiac and non-cardiac diseases. TnI measurement is recommended to be included in routine biochemical testing with other traditional exams such as renal and hepatic tests. Measurement of TnI is necessary to discover the involvement of myocardial injury in critically ill patients. Noncardiac critical disease can also affect the heart muscle. Diseases that can increase TnI levels are systemic inflammation, anemia, pancreatitis, cancer, respiratory disease and other varied diseases.



For More Information:  
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 800-727-5169

### More From Bionote Vcheck Analyzers

All of Bionote's Vcheck biomarker tests are available for use on the Vcheck V200 and V2400 analyzers.

