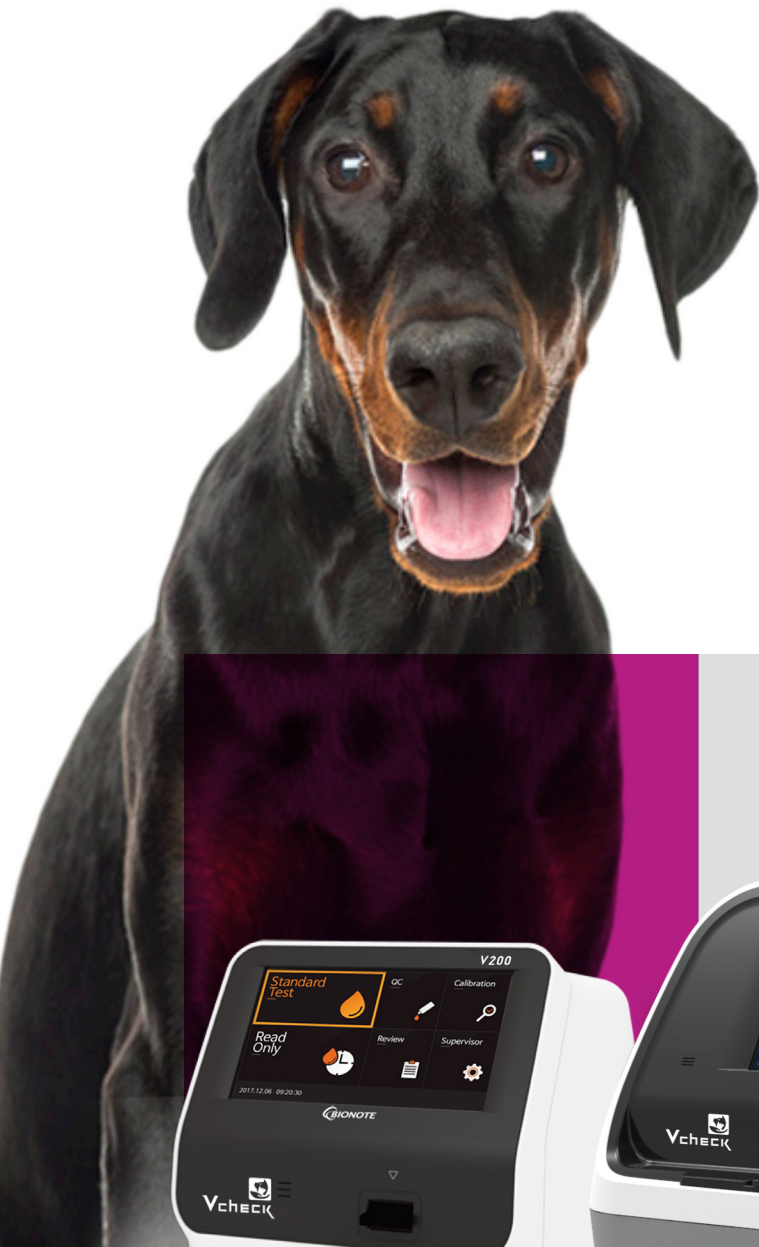


Vcheck Canine TnI

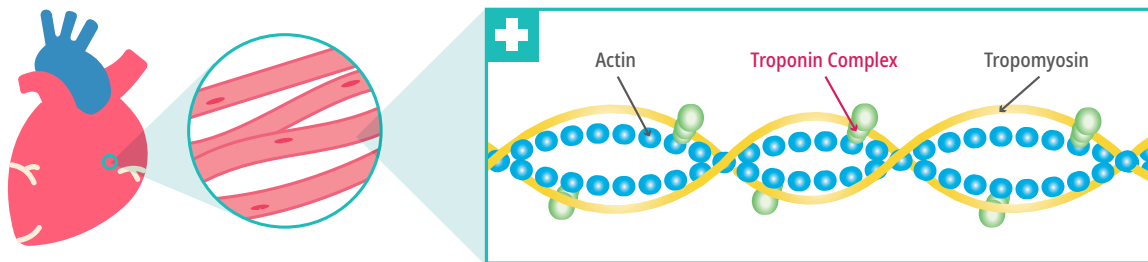
Quantitative marker of
myocardial injury



What is Canine TnI?

Troponin consists of 3 subunits (troponin I, T, and C) which together function as the molecular switch of cardiomyocyte contraction. Among them, cardiac Troponin I (TnI) is a sensitive and specific circulating marker of cardiac injury for dogs.

Cardiac injury causes the release of TnI into the circulation, where its concentration is correlated to the severity of the damage.



What TnI levels tell us?

Check Canine TnI can provide important diagnostic and prognostic information in patients with cardiovascular or non-cardiac diseases as a cardiac injury marker of choice.

Increases with increasing severity of mitral valve disease (MMVD)

- Increased TnI indicates ongoing myocyte damage in a chronic remodeling process
- **Continuous monitoring is required as TnI levels increase with MMVD severity**

Detects early phases of dilated cardiomyopathy (DCM)

- Valuable diagnostic test that can detect cardiomyopathy in apparently healthy dogs
- **Recommended as a pre-screening test in large breed dogs at high risk**

Useful in assessing the prognosis in critically ill patients

- Provides prognostic information irrespective of the underlying disease (cardiac or noncardiac)
- **Improves the accuracy of monitoring and prognosis assessment of patients**

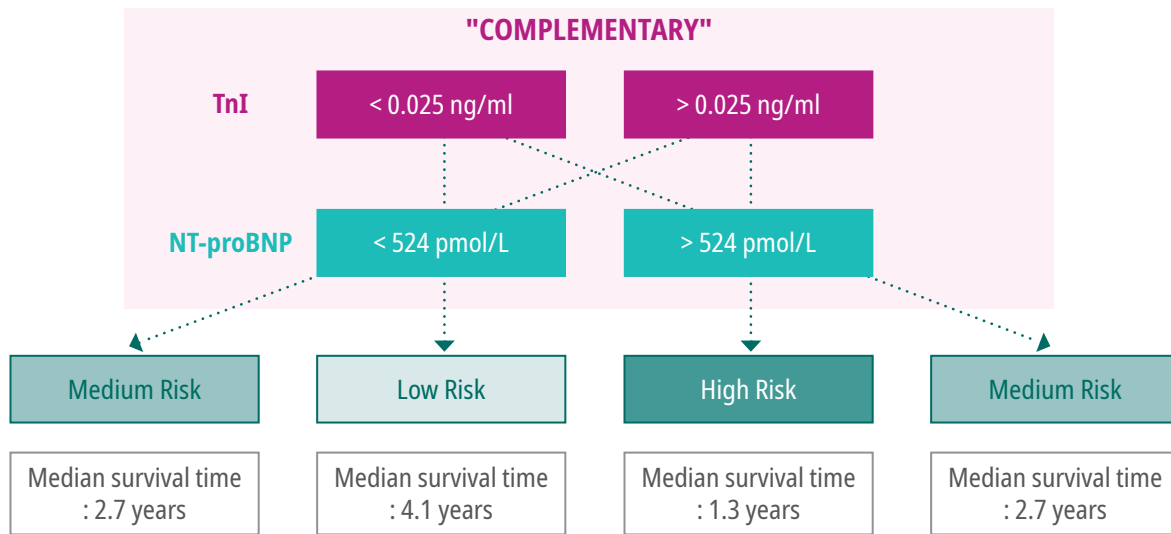
Assessment of myocardial damage secondary to cardiac trauma

- Can be used to detect significant cardiac injury from direct trauma

Prognostic Algorithm

Combined measurement of TnI and NT-proBNP is prognostically superior to measuring each alone in dogs with MMVD. *J Vet Intern Med 2012;26:302-311*

- ▶ TnI Testing **Cardiac Injury**
- ▶ NT-proBNP Testing for **Cardiac Stretching**

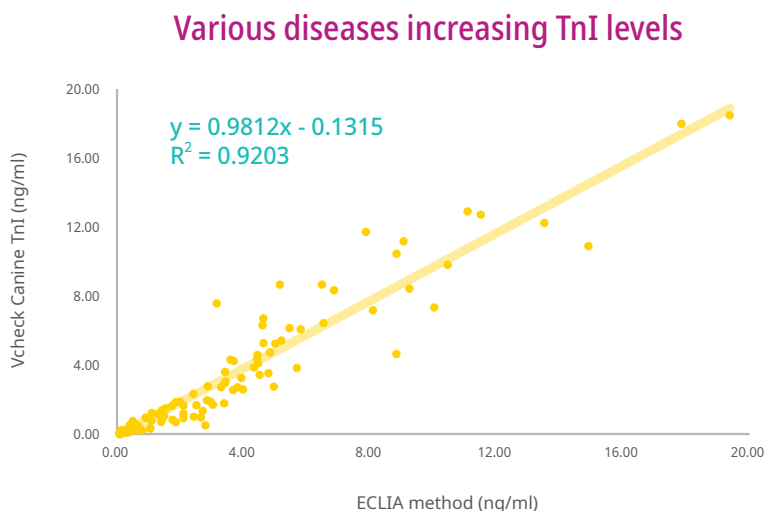


[Algorithm] For dogs with MMVD of varying severity

Performance

High correlation with a reference method

Vcheck Canine TnI has a high correlation ($y=0.9812x-0.1315$, $R^2=0.9203$) with the ECLIA method from 'R' multinational healthcare company. *ECLIA: Electrochemiluminescence immunoassay



Vcheck Canine TnI

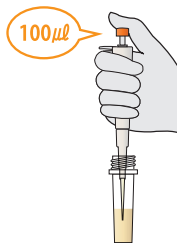
Specifications

- Species : Dog
- Sample : Serum 100 µl
- Testing Time : 10 minutes
- Measurement : Quantitative
- Measurement Range : 0.01 – 20 ng/ml
- Storage Condition : 1 - 30 °C



Test Procedure

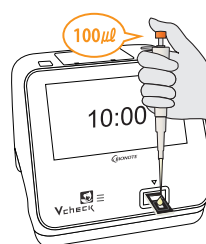
- 1 Add 100 µl of the sample to the assay diluent tube



- 2 Mix well 5-6 times by using a 100 µl pipette



- 3 Add 100 µl of the mixed sample into the test device



Samples should be tested immediately after collection. (If not, freeze the samples at -20 °C or below for storage. Do not freeze and thaw repeatedly.)

Reference Ranges

< 0.1 ng/ml	0.1 – 0.2 ng/ml	> 0.2 ng/ml
Normal	Suspected Possibility of myocardial injury	Abnormal High possibility of myocardial injury

* TnI concentrations should not be used to either confirm or exclude primary cardiac disease without the simultaneous use of echocardiography.

Ordering Information

Product No.	Product Name	Storage Condition	Packing Unit
VCF137DC	Vcheck Canine TnI	1 - 30 °C	5 Tests/Kit



Manufactured by

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Rev.4