# Vcheck Canine NT-proBNP

New Biomarker for the Diagnosis of Heart Failure

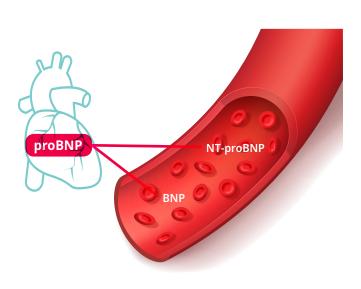




## What is NT-proBNP?

The pro-hormone (proBNP) is produced by cardiac myocytes and increases due to increased myocardial wall stress.

Upon release into the blood, it is cleaved into BNP and NT-proBNP. Due to its longer half-life, NT-proBNP is better suited as a diagnostic parameter.



## What NT-proBNP levels tell us

In dogs, NT-proBNP is correlated with heart size and systolic function, suggesting that the concentrations can be used to detect animals with early disease.

#### Distinguishes cardiac from respiratory disease

- In dogs with dyspnea requiring emergency care
- Differentiates cardiac and respiratory causes of respiratory signs

#### Staging of Myxomatous Mitral Valve Degeneration (MMVD)

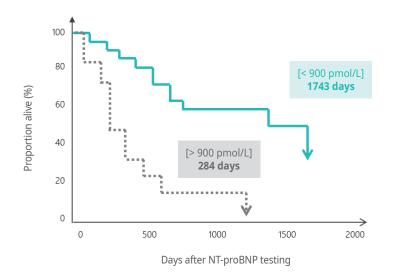
- Differentiates dogs with MMVD with and without congestive heart failure
- Chronic monitoring in dogs with MMVD

#### **Detects Dilated Cardiomyopathy in Doberman Pinschers**

- Highly sensitive and specific for detecting occult DCM
- Predicts survival in Dobermans at high risk

NT-proBNP should be interpreted with other diagnostic techniques, such as echocardiography, thoracic radiography, history and clinical signs, improving the accuracy of diagnosis.

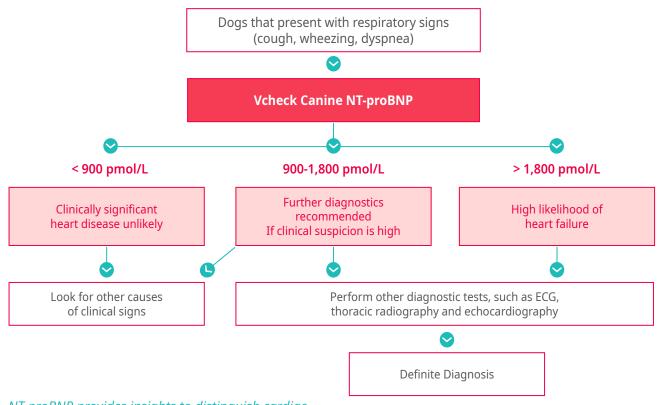




## With low NT-proBNP, 6.1 times longer !

# **Clinical Algorithm**

#### NT-proBNP testing in dogs



*NT-proBNP provides insights to distinguish cardiac from non-cardiac respiratory distress* 

## Vcheck Canine NT-proBNP

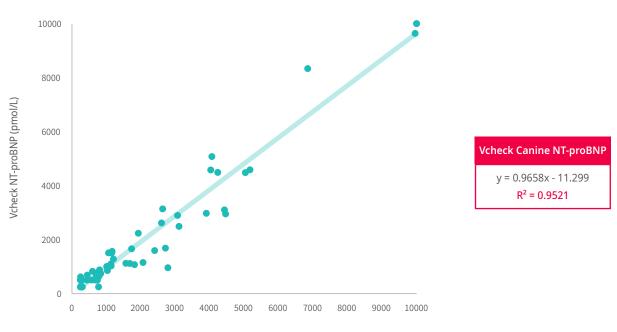
#### **Key Features**

- Quantitative Analysis
  Actual results (instead of an estimate like others)
- Proven Accuracy and Reproducibility Correlated against an ELISA method from laboratories
- Rapid and accurate results Simple procedure and quick results within 15 min.



#### Performance

• Strong correlation (R<sup>2</sup>=0.952) with an ELISA method (from company 'I' laboratories)

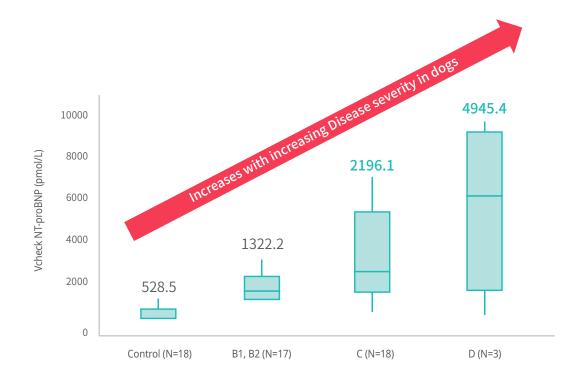




# Vcheck Canine NT-proBNP

## Performance

• Vcheck NT-proBNP levels based on stages of ACVIM System



	Control	Stage B1, B2	Stage C	Stage D
ACVIM Stage	Healthy	Asymptomatic (+ Left heart volume increased)	CHF signals	Terminal stage

## **Ordering Information**

Product No.	Product Name	Product Type	Packing Unit
VCF132DC	Vcheck Canine NT-proBNP	Device	5 Tests/Kit

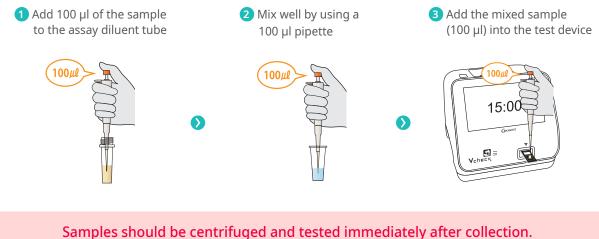
# Vcheck Canine NT-proBNP

## Specifications

- Species : Dog
- Sample : Serum 100 µl
- Testing Time : 15 minutes
- Measurement : Quantitative
- Measurement Range : 500 10,000 pmol/L
- Storage Condition : 2 8 °C



#### **Test Procedure**



Alternatively, refrigerate and use within 24 hours or freeze.

\* \* Degradation of NT-proBNP may occur if stored at room temperature or refrigerated for more than 24 hours, causing false negative results.

#### **Reference Ranges**

< 900 pmol/L	900 – 1,800 pmol/L	> 1,800 pmol/L
	Suspected*	Abnormal*
Normal	Additional diagnostics are recommended	Additional diagnostics are recommended

\* 'Abnormal' or 'Suspected' NT-proBNP test results should always be interpreted in combination and other diagnostic findings, such as an echocardiogram.

\*\* Concentration over 735 pmol/L in Doberman Pinschers indicates an increased risk for occult dilated cardiomyopathy.

