


**CARDIAC**
**PRODUCT SPECIFICATIONS**
**Date:** 2015-05-08

<b>PRODUCT NAME</b>	:	Anti-h NT-proBNP 1306 SPTN-5
<b>PRODUCT SPECIFICITY</b>	:	Antibody recognizes human N-terminal pro-B-type natriuretic peptide
<b>PRODUCT CODE</b>	:	100521
<b>PRODUCT BUFFER</b>	:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.1 % NaN <sub>3</sub> as a preservative.
<b>SHELF LIFE AND STORAGE</b>	:	Shelf life unspecified, storage at +4 °C
<b>ANALYTE DESCRIPTION</b>	:	Pro-B-type natriuretic peptide (ProBNP) is released from cardiac myocytes, and is cleaved into BNP and its N-terminal fragment, NT-proBNP. Plasma concentrations of both BNP and NT-proBNP are significantly increased in patients with asymptomatic and symptomatic left ventricular dysfunction. There is excellent clinical and statistical correlation between assays for BNP and NT-proBNP. Due to the longer half-life in the circulation, NT-proBNP levels in blood plasma are generally 6-10 times higher than BNP. The better stability and wider dynamic range for NT-proBNP may provide an advantage in clinical testing.

**PARAMETERS TESTED FROM EACH LOT**

<b>PRODUCT APPEARANCE</b>	:	Clear liquid, may turn opaque during storage
<b>PRODUCT CONCENTRATION</b>	:	5.0 mg/ml (+/- 10 %)
<b>PRODUCT ACTIVITY</b>	:	80 – 120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	:	N/D
<b>PURITY</b>	:	≥ 95 %

**PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE**

<b>CLASS AND SUBCLASS</b>	:	IgG <sub>1</sub>
<b>ASSOCIATION CONSTANT</b>	:	N/D
<b>DISSOCIATION CONSTANT</b>	:	N/D
<b>AFFINITY CONSTANT</b>	:	K <sub>D</sub> = 1 x 10 <sup>-10</sup> M
<b>DETERMINATION METHOD</b>	:	N/A
<b>ANTIGEN</b>	:	N/A
<b>CROSS-REACTIVITIES</b>	:	N/D

**EPITOPE** : Amino acids 12-28

**EPITOPE GROUP** : N/A

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

**PAIR RECOMMENDATIONS** : **SOLID** **LABEL**

N/D

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

**PRODUCT STABILITY** : **TEMPERATURE, DAYS** **RESULT**

Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.

-70 °C, 21 days	N/D
-20 °C, 21 days	N/D
+4 °C, 21 days	N/D
+25 °C, 21 days	N/D
+35 °C, 21 days	N/D
+45 °C, 3 days	N/D
+45 °C, 7 days	N/D

**MISCELLANEOUS** : -

**REFERENCES** : -

### Legal disclaimer

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