

**CARDIAC**

**PRODUCT SPECIFICATIONS**

Date: 2010-05-24

<b>PRODUCT NAME</b>	: Anti-h cTnI 9705 SPTN-1
<b>PRODUCT SPECIFICITY</b>	: Antibody recognizes human Cardiac Troponin I
<b>PRODUCT CODE</b>	: 100125
<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>	: 12 months from manufacturing at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	: Troponins form a complex (Troponin C, I and T) of three regulatory proteins that are integral to muscle contraction in skeletal and cardiac muscle, but not smooth muscle. Troponin levels can be used as a test of several different heart disorders, including myocardial infarction. The measurement of serum cTnI and cTnT is superior in terms of sensitivity and specificity to cardiac muscle enzyme measurements in the identification of cardiac muscle damage. Raised cardiac troponin concentrations are now accepted as the standard biochemical marker for the diagnosis of myocardial infarction.

**PARAMETERS TESTED FROM EACH LOT**

<b>PRODUCT APPEARANCE</b>	: Clear liquid
<b>PRODUCT CONCENTRATION</b>	: 1.00 mg/ml (+/- 10 %)
<b>PRODUCT ACTIVITY</b>	: 80-120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	: 6.2 - 7.4
<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>	:
<b>DISSOCIATION CONSTANT</b>	:
<b>AFFINITY CONSTANT</b>	: 1.7 x 10 <sup>8</sup> l/mol
<b>DETERMINATION METHOD</b>	: Biacore
<b>ANTIGEN</b>	: Troponin complex, HyTest (Cat No 8T62 Lot 03701)
<b>CROSS-REACTIVITIES</b>	: Not determined.

**EPITOPE** : N-terminal epitope residues 21-30

**EPITOPE GROUP** :

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** :

<b>SOLID</b>	<b>LABEL</b>
9705	9701
9707	9705

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

**PRODUCT STABILITY** :

<b>TEMPERATURE, DAYS</b>	<b>RESULT</b>
-70 °C, 21 days	
-20 °C, 21 days	
+4 °C, 21 days	
+25 °C, 21 days	
+35 °C, 7 days	
+35 °C, 21 days	
+45 °C, 3 days	
+45 °C, 7 days	

<b>pH, 14 DAYS, +4 °C</b>	<b>RESULT</b>
5.0	
6.0	
7.0	
8.0	

**MISCELLANEOUS** :

**REFERENCES** :

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