

 **CARDIAC**

# PRODUCT SPECIFICATIONS

Date: 2010-05-24

<b>PRODUCT NAME</b>	: Anti-h CK-MB 7501 SPRN-2
<b>PRODUCT SPECIFICITY</b>	: Antibody recognizes human Creatine Kinase MB Isoenzyme
<b>PRODUCT CODE</b>	: 100085
<b>PRODUCT BUFFER</b>	: 37 mM citrate, 125 mM phosphate, pH 6.0, 0.1 % NaN <sub>3</sub> as a preservative
<b>SHELF LIFE AND STORAGE</b>	: 24 months from manufacturing at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	: Creatine kinase (CK), also known as creatine phosphokinase (CPK) or phospho-creatine kinase is an enzyme (EC 2.7.3.2) expressed by various tissues and cell types. In the cells, the "cytosolic" CK enzymes consists of two subunits, which can be either <i>B</i> (brain type) or <i>M</i> (muscle type). There are, therefore, three different isoenzymes: CK-MM, CK-BB and CK-MB. CK is often determined routinely in emergency patients. In addition, it is determined specifically in patients with chest pain and if acute renal failure is suspected. Elevation of CK is an indication of damage to muscle. It is therefore indicative of injury, rhabdomyolysis, myocardial infarction, muscular dystrophy, myositis, myocarditis, malignant hyperthermia, and neuroleptic malignant syndrome. Lowered CK can be an indication of alcoholic liver disease and rheumatoid arthritis.

## PARAMETERS TESTED FROM EACH LOT

<b>PRODUCT APPEARANCE</b>	: Clear liquid
<b>PRODUCT CONCENTRATION</b>	: 2.0-2.5 mg/ml
<b>PRODUCT ACTIVITY</b>	: 80-120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	: 6.9 - 8.3
<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>	: 2 x 10 <sup>9</sup> l/mol
<b>DETERMINATION METHOD</b>	: Radioimmunoassay (RIA)
<b>ANTIGEN</b>	: CK-MB, Scripps Laboratories (Cat No C1224 Lot 624164)
<b>CROSS-REACTIVITIES</b>	: CK-BB isoenzyme 182 % (Scripps Laboratories Cat No C1124 Lot 118164) CK-MM isoenzyme 7.3 % (Scripps Laboratories Cat No C1324 Lot 406164)

**EPITOPE** :

**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>
7501	7502

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** :

### Legal disclaimer

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