

## PRODUCT SPECIFICATIONS

Date: 2013-02-28

<b>PRODUCT NAME</b>	:	Anti-h ApoA1 2001 SPTN-5
<b>PRODUCT SPECIFICITY</b>	:	Human Apolipoprotein A1 (ApoA1)
<b>PRODUCT CODE</b>	:	100263
<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>	:	18 months at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	:	Apolipoprotein A1 (ApoA1) is a major component of the high-density lipoprotein complex (HDL or "good cholesterol"). ApoA1 helps to clear cholesterol from arteries. Decreased serum HDL- cholesterol levels have been reported to correlate with increased risk of coronary artery disease. However, Apo A-I has been suggested as a better discrimination of coronary artery disease than HDL.

## 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>	:	5.4 – 6.2
<b>PURITY</b>	:	≥ 95 %

## PARAMETERS DETERMINED ONLY DURING PRODUCT R&amp;D PHASE

<b>CLASS AND SUBCLASS</b>	:	IgG <sub>1</sub>
<b>ASSOCIATION CONSTANT</b>	:	2x10 <sup>5</sup> 1/Ms
<b>DISSOCIATION CONSTANT</b>	:	5x10 <sup>-4</sup> 1/s
<b>AFFINITY CONSTANT</b>	:	K <sub>a</sub> =5x10 <sup>8</sup> 1/M; K <sub>d</sub> =2x10 <sup>-9</sup> M
<b>DETERMINATION METHOD</b>	:	SPR method (ProteOn XPR36)
<b>ANTIGEN</b>	:	Human Apolipoprotein A1 (Chemicon, cat.no. ALP10, lot.no. 0507005923)
<b>CROSS-REACTIVITIES</b>	:	N/D

**EPITOPE** : N/D

**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>
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** : 

<b>TEMPERATURE, DAYS</b>	<b>RESULT</b>
-70 °C, 21 days	Not recommended, may precipitate
-20 °C, 21 days	Not recommended, may precipitate
+4 °C, 21 days	OK
+25 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

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.

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

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

Stability testing is performed to see whether pH affects the antigen binding, charge or composition of the antibody during 14 days at +4 °C.

**MISCELLANEOUS** : -

**REFERENCES** : -

**Legal disclaimer**

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