


**SEROLOGY**
**PRODUCT SPECIFICATIONS**

Date: 2010-05-24

<b>PRODUCT NAME</b>	: Anti-h IgG 7701 SPRN-5
<b>PRODUCT SPECIFICITY</b>	: Antibody recognizes human Immunoglobulin G
<b>PRODUCT CODE</b>	: 100087
<b>PRODUCT BUFFER</b>	: 37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.1 % NaN <sub>3</sub> as a preservative
<b>SHELF LIFE AND STORAGE</b>	: 36 months from manufacturing at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	: Immunoglobulin G (IgG) is a monomeric immunoglobulin, built of two heavy chains and two light chains. Each IgG has two antigen binding sites. It is the most abundant immunoglobulin and is approximately equally distributed in blood and in tissue liquids, constituting 75% of serum immunoglobulins in humans. There are four IgG subclasses (IgG1, 2, 3 and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant).

**PARAMETERS TESTED FROM EACH LOT**

<b>PRODUCT APPEARANCE</b>	: Clear liquid
<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>	: 7.0 - 8.0
<b>PURITY</b>	: ≥ 95 %

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

<b>CLASS AND SUBCLASS</b>	: IgG <sub>2a</sub>
<b>ASSOCIATION CONSTANT</b>	:
<b>DISSOCIATION CONSTANT</b>	:
<b>AFFINITY CONSTANT</b>	: 2 x 10 <sup>10</sup> l/mol
<b>DETERMINATION METHOD</b>	: Radioimmunoassay (RIA)
<b>ANTIGEN</b>	: IgG, Scripps Laboratories (Cat No I1424 Lot 484183)
<b>CROSS-REACTIVITIES</b>	: Human IgG <sub>1</sub> 147 % (Chemicon Cat No AG502 Lot 030BCS3) Human IgG <sub>2</sub> 150 % (Chemicon Cat No AG504 Lot 212CCH) Human IgG <sub>3</sub> 94 % (Chemicon Cat No AG506 Lot 030BCS4) Human IgG <sub>4</sub> 2.1 % (Chemicon Cat No AG508 Lot 107BCS) Human IgM 0.6 % (Scripps Laboratories Cat No I1124 Lot 794283) Human IgA 0.3 % (Scripps Laboratories Cat No I2224 Lot 127283) Goat IgG < 0.01 % (Chemicon Cat No PP40 Lot 1250CM) Rabbit IgG < 0.01 % (Chemicon Cat No PP64 Lot 3080CM) Equine IgG < 0.01 % (Chemicon Cat No PP30 Lot 310JC11) Porcine IgG < 0.01 % (Chemicon Cat No AG114 Lot 154JC11) Bovine IgG < 0.01 % (Chemicon Cat No PP03 Lot 012291CHM3) Ovine IgG < 0.01 % (Chemicon Cat No PP44 Lot 0630CM)

**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** :

SOLID	LABEL
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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** :

TEMPERATURE, DAYS	RESULT
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-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

pH, 14 DAYS, +4 °C	RESULT
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5.0

6.0

7.0

8.0

**MISCELLANEOUS** :

**REFERENCES** :

Roivainen, M., Alfthan, G., Jousilahti, P., Kimpimäki, M., Hovi, T., and Tuomilehto, J., (1998) Enterovirus infections as a possible risk factor for myocardial infarction. *Circulation*, 98:2534-2537

### Legal disclaimer

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