

● **SEROLOGY**

PRODUCT SPECIFICATIONS

Date: 2011-02-02

PRODUCT NAME	: Anti-h IgA 8203 SPRN-5
PRODUCT SPECIFICITY	: Antibody recognizes human Immunoglobulin A
PRODUCT CODE	: 100101
PRODUCT BUFFER	: 37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	: 36 months from manufacturing at 2-8 °C
ANALYTE DESCRIPTION	: Immunoglobulin A (IgA) is an antibody which plays a critical role in mucosal immunity. IgA has two subclasses (IgA1 and IgA2) and can exist in a dimeric form called secretory IgA (sIgA). In its secretory form, IgA is the main immunoglobulin found in mucous secretions, including tears, saliva, colostrum and secretions from the genit-urinary tract, gastrointestinal tract, prostate and respiratory epithelium. It is also found in small amounts in blood. The secretory component of sIgA protects the immunoglobulin from being degraded by proteolytic enzymes, thus sIgA can survive in the harsh gastrointestinal tract environment.

PARAMETERS TESTED FROM EACH LOT

PRODUCT APPEARANCE	: Clear liquid
PRODUCT CONCENTRATION	: 5.0 mg/ml (+/- 10 %)
PRODUCT ACTIVITY	: 80-120 % compared to reference in an IFMA-test
IEF-RANGE	: 7.1 - 7.8
PURITY	: ≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	: IgG ₁
ASSOCIATION CONSTANT	: N/D
DISSOCIATION CONSTANT	: N/D
AFFINITY CONSTANT	: 3 x 10 ⁹ l/mol
DETERMINATION METHOD	: Radioimmunoassay (RIA)
ANTIGEN	: IgA, Scripps Laboratories (Cat No I2224 Lot 127283)
CROSS-REACTIVITIES	: Human IgA (secretory) 107 % (DAKO Cat No X594 Lot 0692) Human IgA (myeloma) 135 % (Scripps Cat No I0124 Lot 795283) Human IgA ₁ (myeloma) 145 % (Chemicon Cat No AG500 Lot 150BDS) Human IgA ₂ (myeloma) 91 % (Chemicon Cat No AG501 Lot 322BDS) Human IgA ₁ (myeloma) 104 % (Biodesign Cat No A50165H Lot 9K3203) Human IgA ₂ (myeloma) 200 % (Biodesign Cat No A50160H Lot 392) Human IgA α-chain 138 % (Chemicon Cat No AG701 Lot 110386) Human IgG < 0.3 % (Chemicon Cat No AG711 Lot 203PCB) Human IgG < 0.3 % (Scripps Cat No I1424 Lot 484183) Human IgM (plasma) 2.6 % (Scripps Cat No I1124 Lot 794283) Human IgM (Waldenström's macroglobulinaemia) < 0.3 % (DAKO Cat No X595 Lot 0792J)

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 :

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
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+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.

pH, 14 DAYS, +4 °C	RESULT
5.0	N/D
6.0	N/D
7.0	N/D
8.0	N/D

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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