

## PRODUCT SPECIFICATIONS

**Date:** 2011-08-12

<b>PRODUCT NAME</b>	: Anti-Influenza A 7307 SPTN-5
<b>PRODUCT SPECIFICITY</b>	: Antibody recognizes <i>Influenza A</i> nucleoprotein (np)
<b>PRODUCT CODE</b>	: 100083
<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>	: Influenza A is a genus of the Orthomyxoviridae family of viruses and includes only one species which causes influenza in birds and some mammals. There are several subtypes, labeled according to an H number (for the type of hemagglutinin) and an N number (for the type of neuraminidase). There are 16 different H antigens (H1 to H16) and nine different N antigens (N1 to N9). Each virus subtype has mutated into a variety of strains with differing pathogenic profiles; some pathogenic to one species but not others, some pathogenic to multiple species.

### PARAMETERS TESTED FROM EACH LOT

<b>PRODUCT APPEARANCE</b>	: Clear liquid, may turn slightly opaque during prolonged 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>	: 5.8 - 6.4
<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>	: N/D
<b>DISSOCIATION CONSTANT</b>	: N/D
<b>AFFINITY CONSTANT</b>	: N/D
<b>DETERMINATION METHOD</b>	: -
<b>ANTIGEN</b>	: -
<b>CROSS-REACTIVITIES</b>	: Antibody 7307 does not cross-react with the following bacteria or viruses

Coxsackie -virus types: A9, B5, B6  
 Echo-virus types: 2, 3, 6, 7, 9, 11, 25, 30  
 Parainfluenza-virus types: 1, 2, 3  
 Rhino-virus types: 1A, 2, 13, 15, 37  
 Respiratory syncytial virus types: A and B  
 Cytomegalovirus AD169  
 Herpes simplex virus-types: 1 and 2  
*B. fragilis*, *H. influenzae*, *S. pneumoniae*, *M. catarrhalis*, *N. meningitidis*, *S. agalactiae*, *E. faecalis*, *K. pneumoniae*, *S. pyogenes*, *S. aureus*, *P. aeruginosa*, *E. coli*, *B. pertussis*, *C. albicans*, *N. gonorrhoeae*,  $\beta$ -hemolytic streptococcus group C,  $\beta$ -hemolytic streptococcus group G, *M. pneumoniae*, *S. viridians*, *L. monocytogenes*, *S. epidermidis*, *P. mirabilis*

**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**  
7304 7307

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**

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.

-70 °C, 21 days	N/D
-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

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	Failed due to reduced antigen binding
6.0	OK
7.0	Not recommended, may precipitate
8.0	Not recommended, may precipitate

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** : Reacts also with H5N3, H7N3, H9N2, H5N1 and H1N1

**REFERENCES** : -

### Legal disclaimer

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