

**INFECTIOUS  
DISEASES**

**PRODUCT SPECIFICATIONS**

Date: 2010-05-24

<b>PRODUCT NAME</b>	: Anti-Influenza A 7304 SPRN-5
<b>PRODUCT SPECIFICITY</b>	: Antibody recognizes <i>Influenza A</i> nucleoprotein (np)
<b>PRODUCT CODE</b>	: 100081
<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>	: 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
<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>	: 7.6 - 8.9
<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>	: n.d.
<b>DETERMINATION METHOD</b>	:
<b>ANTIGEN</b>	:
<b>CROSS-REACTIVITIES</b>	: Antibody 7304 does not cross-react with the following bacteria or viruses  Influenza B strains: B/Fin/24/85 E, B/Fin/150/90 M, B/Fin/172/91 M, B/Fin/333/95 M, Coxsackie -virus types: A9, A13, A18, A21, B1, B2, B3, B4, B5, B6 Echo-virus types: 1, 2, 3, 4, 5, 6, 7, 10, 18, Parainfluenza-virus types: 1, 2, 3 Rhino-virus types: 1A, 2, 13, 15, 37 Respiratory syncytial virus types: 1A, 2, 13, 15, 37 Enterovirus-70 Cytomegalovirus AD169 Herpes simplex virus-types: 1 and 2 <i>S. sanguis</i> , <i>S. mutans</i> , <i>S. mitis</i> , <i>B. fragilis</i> , <i>H. influenzae</i> , <i>S. pneumoniae</i> , <i>M. catarrhalis</i> , <i>N. meningitides</i> , <i>S. agalactiae</i> , <i>E. faecalis</i> , <i>S. epidermidis</i> , <i>K. pneumoniae</i> , <i>K. monocytogenes</i> , <i>S. pyogenes</i> , <i>S. aureus</i> , <i>P. aeruginosa</i> , <i>P. vulgaris</i> , <i>E. coli</i> , <i>B. pertussis</i> , <i>C. albicans</i> , <i>N. gonorrhoeae</i> , $\beta$ -hemolytic streptococcus group F, $\beta$ -hemolytic streptococcus group C, $\beta$ -hemolytic streptococcus group G, <i>M. pneumoniae</i> , <i>S. viridians</i> , <i>L. monocytogenes</i> , <i>S. epidermidis</i> , <i>P. mirabilis</i>  Non-immunological reactivity with <i>S. aureus</i> , HSV-1 and <i>Streptococcus</i> group A

**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>
7304	7305, 7307

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** :

Tested with the following *Influenza A* strains  
H3N2 strains: A/Fin/65/69, A/Fin/23/76, A/Fin/31/80, A/Fin/189/92, A/Fin/262/93, A/Fin/364/95, A/Fin/371/95, A/Fin/445/96, A/Fin/539/97, A/Fin/661/99, A/Panama/2007/99

H1N1-strains: A/Fin/30/77, A/Fin/98/78, A/Fin/45/87, A/Fin/91/89, A/Fin/164/91, A/Fin/221/92, A/Fin/432/96, A/New Caledonia/20/99

Recognizes also H5N3, H7N3, H9N2, H5N1 and H1N1

**REFERENCES** :

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