

PRODUCT SPECIFICATIONS

Date: 2011-08-12

PRODUCT NAME	:	Anti-Influenza A 7304 SPRN-5
PRODUCT SPECIFICITY	:	Antibody recognizes <i>Influenza A</i> nucleoprotein (np)
PRODUCT CODE	:	100081
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	:	12 months from manufacturing at 2-8 °C
ANALYTE DESCRIPTION	:	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

PRODUCT APPEARANCE	:	Clear liquid
PRODUCT CONCENTRATION	:	5.0 mg/ml (+/- 10 %)
PRODUCT ACTIVITY	:	80-120 % compared to reference in an IFMA-test
IEF-RANGE	:	7.6 - 8.9
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG _{2a}
ASSOCIATION CONSTANT	:	N/D
DISSOCIATION CONSTANT	:	N/D
AFFINITY CONSTANT	:	N/D
DETERMINATION METHOD	:	-
ANTIGEN	:	-
CROSS-REACTIVITIES	:	<p>Antibody 7304 does not cross-react with the following bacteria or viruses</p> <p>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. meningitidis</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>, β-hemolytic streptococcus group F, β-hemolytic streptococcus group C, β-hemolytic streptococcus group G, <i>M. pneumoniae</i>, <i>S. viridians</i>, <i>L. monocytogenes</i>, <i>S. epidermidis</i>, <i>P. mirabilis</i></p> <p>Non-immunological reactivity with <i>S. aureus</i>, HSV-1 and <i>Streptococcus</i> group A</p>

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	7305, 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
-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °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 : 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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