


TUMOR
PRODUCT SPECIFICATIONS
Date: 2010-05-12

PRODUCT NAME	:	Anti-h CEA 5905 SP-1
PRODUCT SPECIFICITY	:	Antibody recognizes human Carcinoembryonic Antigen
PRODUCT CODE	:	100044
PRODUCT BUFFER	:	0.9 % NaCl, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	:	36 months from manufacturing at 2-8 °C
ANALYTE DESCRIPTION	:	Carcinoembryonic antigen (CEA) is a glycoprotein involved in cell adhesion. It is normally produced during fetal development, but the production of CEA stops before birth. Therefore, it is not usually present in the blood of healthy adults, but elevated levels have been found in individuals with carcinomas. CEA measurement is mainly used as a tumor marker to identify recurrences after surgical resection. CEA levels may also be raised in some non-neoplastic conditions like ulcerative colitis, pancreatitis and cirrhosis.

PARAMETERS TESTED FROM EACH LOT

PRODUCT APPEARANCE	:	Clear liquid
PRODUCT CONCENTRATION	:	1.00 mg/ml (+/- 10 %)
PRODUCT ACTIVITY	:	80-120 % compared to reference in an IFMA-test
IEF-RANGE	:	5.9 - 6.8
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG ₁
ASSOCIATION CONSTANT	:	
DISSOCIATION CONSTANT	:	
AFFINITY CONSTANT	:	5 x 10 ¹⁰ l/mol
DETERMINATION METHOD	:	Radioimmunoassay (RIA)
ANTIGEN	:	CEA, BIOSCAN (Cat No 100 Lot 118-1A)
CROSS-REACTIVITIES	:	Some cross-reactivity with human NCA (non-specific cross-reacting antigen) and NCA2 (non-specific cross-reacting antigen-2).

EPITOPE	:																													
EPITOPE GROUP	:	Epitope group A (Bhayana et al., 1989)																												
		If two antibodies binding to an analyte belong to the same group they bind to the same, or closely located epitopes, 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	:	<table border="1"> <thead> <tr> <th>SOLID</th> <th>LABEL</th> </tr> </thead> <tbody> <tr> <td>5909</td> <td>5905</td> </tr> </tbody> </table> <p>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.</p>	SOLID	LABEL	5909	5905																								
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PRODUCT STABILITY	:	<table border="1"> <thead> <tr> <th>TEMPERATURE, DAYS</th> <th>RESULT</th> </tr> </thead> <tbody> <tr><td>-70 °C, 21 days</td><td></td></tr> <tr><td>-20° C, 21 days</td><td></td></tr> <tr><td>+4 °C, 21 days</td><td></td></tr> <tr><td>+25 °C, 21 days</td><td></td></tr> <tr><td>+35 °C, 7 days</td><td></td></tr> <tr><td>+35 °C, 21 days</td><td></td></tr> <tr><td>+45 °C, 3 days</td><td></td></tr> <tr><td>+45 °C, 7 days</td><td></td></tr> <tr> <th>pH, 14 DAYS, +4 °C</th> <th>RESULT</th> </tr> <tr><td>5.0</td><td></td></tr> <tr><td>6.0</td><td></td></tr> <tr><td>7.0</td><td></td></tr> <tr><td>8.0</td><td></td></tr> </tbody> </table>	TEMPERATURE, DAYS	RESULT	-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	5.0		6.0		7.0		8.0	
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MISCELLANEOUS	:	In Bhayana et al. (1989) authors made an epitope mapping for 11 monoclonal antibodies from Medix Biochemica and they found that the antibodies bound to 5 different epitope groups (A to F) and 5905 was found to bind to epitope group A.																												
REFERENCES	:	Bhayana, V., and Diamandis, E.P., (1989) A double monoclonal time-resolved immunofluorometric assay of carcinoembryonic antigen is serum. Clin. Biochem., 22:433-438																												

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