

 **TUMOR**

PRODUCT SPECIFICATIONS

Date: 2010-06-23

PRODUCT NAME	:	Anti-h CEA 5912 SP-1
PRODUCT SPECIFICITY	:	Antibody recognizes human Carcinoembryonic Antigen
PRODUCT CODE	:	100049
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 - 7.8
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG ₁
ASSOCIATION CONSTANT	:	
DISSOCIATION CONSTANT	:	
AFFINITY CONSTANT	:	4 x 10 ⁹ l/mol
DETERMINATION METHOD	:	Radioimmunoassay (RIA)
ANTIGEN	:	CEA, BIOSCAN (Cat No 100 Lot 118-1T)
CROSS-REACTIVITIES	:	Cross-reactivity with human NCA2.

EPITOPE	:																													
EPITOPE GROUP	:	Epitope group F (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" data-bbox="619 465 1453 499"> <thead> <tr> <th>SOLID</th> <th>LABEL</th> </tr> </thead> </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																										
SOLID	LABEL																													
PRODUCT STABILITY	:	<table border="1" data-bbox="619 663 1453 1084"> <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	
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																														
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 5909 was found to bind to epitope group F.																												
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																												

Legal disclaimer

MedixMAB monoclonal antibodies meet their specifications if transported, stored and used according to the instructions for use. See also separate *Notes on use and storage of monoclonal antibodies*. If not otherwise agreed in writing all products are sold under *General Delivery Terms*. Other terms may apply if MedixMAB monoclonal antibodies are purchased from an official distributor of Medix Biochemica products. MedixMAB is a registered trademark of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission. Further information on products and methods is available from medixMAB website and extranet.