

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h CEA 5910 SPTN-5
<b>Specificity</b>	Antibody recognizes human carcinoembryonic antigen
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100047
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	36 months from manufacturing at 2–8 °C
<b>Analyte description</b>	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 ON EACH LOT

<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80–120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	5.7 – 7.1
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	1 × 10 <sup>11</sup> l/mol
<b>Determination method</b>	Radioimmunoassay (RIA)
<b>Determination antigen</b>	CEA, BIOSCAN (Cat 110, Lot 331569-1)

### Legal disclaimer

Medix Biochemica products meet their specifications if transported, stored and used according to the instructions. MedixMAB is a registered trademark of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission.

### Oy Medix Biochemica Ab

**Headquarters and manufacturing**  
Klovinpellontie 3  
FI-02180 Espoo, Finland

medix@medixbiochemica.com  
www.medixbiochemica.com  
VAT reg. no. FI4631532

**Cross-reactivities**

No cross-reactivity with human NCA (non-specific cross-reacting antigen) and NCA-2 (non-specific cross-reacting antigen-2).

**Epitope**

N/D

**Pair recommendations**

		DETECTION				
		5905	5909	5910	5911	5912
CAPTURE	5905	-	-	-	-	-
	5909	+	-	+	-	-
	5910	-	+	-	-	+
	5911	-	-	-	-	-
	5912	-	-	+	-	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Product stability**

TEMPERATURE, TIME	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

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2-8 °C in the product buffer.

**Miscellaneous**

Antibody recognizes native CEA antigen, Lee Biosolutions 151-09 and 151-10.

**References**

-