

PRODUCT SPECIFICATIONS

Date: 2013-02-28

PRODUCT NAME	:	Anti-h PG II 8103 SPTN-5
PRODUCT SPECIFICITY	:	Antibody recognizes human Pepsinogen II
PRODUCT CODE	:	100121
PRODUCT BUFFER	:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	:	24 months at 2-8 °C
ANALYTE DESCRIPTION	:	Pepsinogen is the pro-form of pepsin and is produced in the stomach by chief cells. The major part of pepsinogen is secreted into the gastric lumen but a small amount can be found in the blood. Alterations in the serum pepsinogen concentrations has been found with <i>H.pylori</i> infections, peptic ulcer disease, gastritis, and gastric cancer. More precise analysis may be achieved by measuring the pepsinogen I/II ratio.

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	:	6.8 - 7.9
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG ₁
ASSOCIATION CONSTANT	:	N/D
DISSOCIATION CONSTANT	:	N/D
AFFINITY CONSTANT	:	3.5 x 10 ⁹ l/mol
DETERMINATION METHOD	:	SPR analysis (Biacore)
ANTIGEN	:	PG II, Medix Biochemica in-house (B330/99)
CROSS-REACTIVITIES	:	Human Pepsinogen I 1.16 % (Medix Biochemica in-house U130/01, U123/01) Porcine Pepsinogen < 0.85 % (Sigma Cat No P-4656 Lot 82H8065) Gastrin I < 0.85 % (Sigma Cat No G-9020 Lot 32H49503) Somatostatin < 0.85 % (Sigma Cat No S-9129 Lot 44H03692) Peptide YY < 0.85 % (Sigma Cat No P-1306 Lot 73H03692) Bombesin < 0.85 % (Sigma Cat No B-4272 Lot 95H58651)

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
8101	8103
8103	8102

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	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+25 °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 : -

REFERENCES : -

Legal disclaimer

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