

PRODUCT SPECIFICATIONS

Date: 2013-02-28

PRODUCT NAME	:	Anti-h PG I 8015 SPRN-5
PRODUCT SPECIFICITY	:	Antibody recognizes human Pepsinogen I
PRODUCT CODE	:	100143
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	:	36 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	:	6.0 - 6.9
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	:	4 x 10 ¹⁰ l/mol														
DETERMINATION METHOD	:	Radioimmunoassay (RIA)														
ANTIGEN	:	PG I, Medix Biochemica in-house (A125-126-116/92)														
CROSS-REACTIVITIES	:	<table> <tr> <td>Human Pepsinogen II</td> <td>0.08 % (Medix Biochemica in-house, A87/94)</td> </tr> <tr> <td>Porcine Pepsinogen</td> <td>< 0.01 % (Sigma Cat No P-4656 Lot 82H8065)</td> </tr> <tr> <td>Gastrin I</td> <td>< 0.01 % (Sigma Cat No G-9020 Lot 110H48131)</td> </tr> <tr> <td>Somatostatin</td> <td>< 0.01 % (Sigma Cat No S-9129 Lot 81H00471)</td> </tr> <tr> <td>Peptide YY</td> <td>< 0.01 % (Sigma Cat No P-1306 Lot 90H48992)</td> </tr> <tr> <td>Bombesin</td> <td>< 0.01 % (Sigma Cat No B-4272 Lot 82H58501)</td> </tr> <tr> <td>Cathepsin D</td> <td>< 0.05 % (Sigma Cat No C-8696 Lot 46H0795)</td> </tr> </table>	Human Pepsinogen II	0.08 % (Medix Biochemica in-house, A87/94)	Porcine Pepsinogen	< 0.01 % (Sigma Cat No P-4656 Lot 82H8065)	Gastrin I	< 0.01 % (Sigma Cat No G-9020 Lot 110H48131)	Somatostatin	< 0.01 % (Sigma Cat No S-9129 Lot 81H00471)	Peptide YY	< 0.01 % (Sigma Cat No P-1306 Lot 90H48992)	Bombesin	< 0.01 % (Sigma Cat No B-4272 Lot 82H58501)	Cathepsin D	< 0.05 % (Sigma Cat No C-8696 Lot 46H0795)
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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
8003	8015
8015	8003

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 : -

REFERENCES : -

Legal disclaimer

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