

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h PG I 8003 SPRN-5
<b>Specificity</b>	Antibody recognizes human pepsinogen I
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100120
<b>Product buffer solution</b>	37 mM citrate, 125 mM phosphate, 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>	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>Helicobacter pylori</i> ( <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 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>	6.5 - 7.3
<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>	4 x 10 <sup>10</sup> l/mol
<b>Determination method</b>	Radioimmunoassay (RIA)
<b>Determination antigen</b>	PG I, Medix Biochemica in-house (A125-126-116/92)

### Legal disclaimer

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<b>Cross-reactivities</b>	Human Pepsinogen II	0.03 % (Medix Biochemica in-house, A87/94)
	Porcine Pepsinogen	0.92 % (Sigma, Cat P-4656, Lot 82H8065)
	Gastrin I	< 0.01 % (Sigma, Cat G-9020, Lot 110H48131)
	Somatostatin	< 0.01 % (Sigma, Cat S-9129, Lot 81H00471)
	Peptide YY	< 0.01 % (Sigma, Cat P-1306, Lot 90H48992)
	Bombesin	< 0.01 % (Sigma, Cat B-4272, Lot 82H58501)
	Cathepsin D	< 0.06 % (Sigma, Cat C-8696, Lot 46H0795)

**Epitope** N/D

<b>Pair recommendations</b>	<b>CAPTURE ANTIBODY</b>	<b>DETECTION ANTIBODY</b>
	8003	8009
	8003	8015
	8015	8003
	8016	8003

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.

<b>Product stability</b>	<b>TEMPERATURE, TIME</b>	<b>RESULT</b>
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+25 °C, 21days	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** -

**References** -

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