

PRODUCT SPECIFICATIONS

Name	Anti-h Trypsinogen-2 8603 SPRN-5
Specificity	Antibody recognizes human trypsinogen-2
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100107
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	24 months from manufacturing at 2-8 °C
Analyte description	Trypsinogen is the precursor form of the pancreatic enzyme trypsin. It is found in pancreatic juice, along with amylase, lipase, and chymotrypsinogen. It is activated by enteropeptidase, which is found in the intestinal mucosa, to form trypsin. Once activated, the trypsin can activate more trypsinogen into trypsin. Trypsin cleaves peptide bond on carboxyl side of basic amino acids. High serum trypsinogen levels are seen in acute pancreatitis, and cystic fibrosis. Determination of urine trypsinogen-2 is also a useful test to detect acute pancreatitis and to evaluate disease severity.

PARAMETERS TESTED ON EACH LOT

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80-120 % compared to the reference sample in an FIA test
IEF Profile	6.6 - 7.6
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG _{2b}
Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	1.4 x 10 ⁸ l/mol
Determination method	Radioimmunoassay (RIA)
Determination antigen	Trypsinogen-2, Medix Biochemica, in-house

Legal disclaimer

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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

Human Trypsin-1 7 % (Scripps, Cat T0614, Lot 923782)
Human Trypsin-2 3 % (Medix Biochemica, in house, A98/97)

Epitope

N/D

Pair recommendations
CAPTURE ANTIBODY

8603

8607

DETECTION ANTIBODY

8607

8603

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

-70 °C, 21 days

-20 °C, 21 days

+4 °C, 21 days

+30 °C, 21 days

+35 °C, 7 days

+35 °C, 21 days

+45 °C, 3 days

+45 °C, 7 days

RESULT

N/D

OK

OK

OK

OK

Failed due to reduced antigen binding

OK

OK, but some charge alterations

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

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References

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