

PRODUCT SPECIFICATIONS

Name	Anti-h NT-proBNP 1306 SPTN-5
Specificity	Antibody recognizes human N-terminal pro-B-type natriuretic peptide
Description	Monoclonal mouse antibody, cultured <i>in vitro</i>
Product code	100521
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	12 months from manufacturing at 2-8 °C
Analyte description	The plasma concentrations of both the N-terminal fragment of Pro-B-type natriuretic peptide (NT-proBNP) and prohormone of brain natriuretic peptide (proBNP) are significantly increased in patients with asymptomatic and symptomatic left ventricular dysfunction.

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	6.3 - 7.3
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	7.45×10^5 1/Ms
Dissociation rate constant	1.70×10^{-4} 1/s
Affinity constant	$K_A = 4.4 \times 10^8$ 1/M, $K_D = 2.3 \times 10^{-10}$ M (=0.23 nM)
Determination method	SPR-analysis (ProteOn XPR36)
Determination antigen	NT-proBNP, HyTest (Cat 8NT2, Lot 14/07-8NT2)

Legal disclaimer

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Oy Medix Biochemica Ab

Headquarters and manufacturing
Kloivpellontie 3
FI-02180 Espoo, Finland

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

Cross-reactivities Does not recognize canine NT-proBNP (HyTest, 8CNT9). Others not tested.

Epitope Amino acids 12–28 (LETSGLQEQRNHLQGKL)

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	1306 1309, 1310, 1311, 1312	1309, 1310, 1311, 1312, 1307 1306

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	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 7 days	OK
	+35 °C, 21 days	Minor charge alterations
	+45 °C, 3 days	OK
	+45 °C, 7 days	Minor 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 This product has been produced by hybridoma cells cultivated in culture media containing low levels of horse serum. The antibody product has been purified by validated chromatographic methods and meets purity specifications. In very sensitive applications, traces of horse serum derived components may be detected.

Antibody 1306 reacts with recombinant NT-proBNP, Medix Biochemica 610090 and with recombinant proBNP, Medix Biochemica 710017, 710042 and 710043.

References -