

## 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 <sub>3</sub> as a preservative
Shelf life and storage	18 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
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 %

## Kinetic parameters

---

Association rate constant	$7.45 \times 10^5$ 1/Ms
Dissociation rate constant	$1.70 \times 10^{-4}$ 1/s
Affinity constant	$K_A = 4.4 \times 10^9$ 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)

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

**Epitope** Amino acids 12-28 (LETSGLQEQRNHLQGKL)

**Pair recommendations**

		DETECTION						
		1306/ RC1306	1307/ RC1307	1308	1309	1310	1311	1312
CAPTURE	1306 / RC1306	-	+	-	+	+	+	+
	1307/ RC1307	+	-	+	+	+	+	+
	1308	-	+	-	+	+	+	+
	1309	+	+	+	-	-	-	-
	1310	+	+	+	-	-	-	-
	1311	+	+	+	-	-	-	-
	1312	+	+	+	-	-	-	-

Following pairs are especially recommended for the below mentioned assays:

CLIA: 1306 (capture) – 1309 (detection), 1306 – 1311, 1306 – 1312, 1308 – 1309, 1308 – 1310, 1308 – 1311 and 1308 – 1312

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.

**Platforms tested** FIA, LF, CLIA

**Antigens tested** Recombinant NT-proBNP antigen, Medix Biochemica 610090 and recombinant proBNP antigen Medix Biochemica 710017, 710042 and 710043.

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.

References

**Legal disclaimer**

Medix Biochemica products meet their specifications if transported, stored and used according to the instructions. MedixMAB and MedixAntigens are trademarks of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission.

