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**Lab Dept:** Chemistry

**Test Name:** NT-PRO B-TYPE NATRIURETIC PEPTIDE

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***General Information***

**Lab Order Codes:** PBNP

**Synonyms:** NT-Pro BNP

**CPT Codes:** 83880 – Natriuretic peptide

**Test Includes:** NT-Pro BNP level reported in pg/mL.

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***Logistics***

**Test indications:** Aids in the diagnosis of congestive heart failure

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Clinic Laboratory (Mayo test: PBNP1)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 2 days

**Special Instructions:** See [Patient Preparation](#)

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***Specimen***

**Specimen Type:** Blood

**Container:** SST (Gold, marble or red)

**Draw Volume:** 1.5 mL (Minimum: 1.5 mL) blood

**Processed Volume:** 0.5 mL (Minimum: 0.5 mL) serum

**Collection:** Routine blood collection

**Special Processing:** Lab: Centrifuge and process within 2 hours of collection. Remove serum aliquot into a screw-capped plastic vial. Store and ship at frozen temperatures.

Serum specimen stable frozen (preferred) for 365 days, refrigerated for 7 days.

**Patient Preparation:** For 12 hours prior to this test do not take multivitamins or dietary supplements containing biotin (vitamin B7), which is commonly found in hair, skin, nail supplements and multivitamins.

**Sample Rejection:** Gross hemolysis; mislabeled or unlabeled specimens

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***Interpretive***

**Reference Range:**

Males:	0-2 day: 321-11,987 pg/mL
	3-11 day: 263-5918 pg/mL
	12 day-1 month: Not applicable
	2 month-1 year: 37-646 pg/mL
	2 years: 39-413 pg/mL
	3 years-6 years: 23-289 pg/mL
	7 years-14 years: < or =157 pg/mL
	15 years-18 years: < or =158 pg/mL
	19-39 years: <79 pg/mL
	40-44 years: < or =72 pg/mL
	45-54 years: < or =87 pg/mL
	55-64 years: < or =88 pg/mL
	> or =65 years: < or =540 pg/mL

Females:	0-2 day: 321-11,987 pg/mL 3-11 day: 263-5918 pg/mL 12 day-1 month: Not applicable 2 month-1 year: 37-646 pg/mL 2 years: 39-413 pg/mL 3 years-6 years: 23-289 pg/mL 7 years-14 years: < or =157 pg/mL 15 years-18 years: < or =158 pg/mL 19-39 years: <160 pg/mL 40-44 years: < or =162 pg/mL 45-54 years: < or =141 pg/mL 55-64 years: < or =226 pg/mL > or =65 years: < or =540 pg/mL
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**Critical Values:** N/A

**Limitations:** See reference lab catalog for interpretive information.  
  
Lack of N-terminal-pro brain natriuretic peptide (NT-pro BNP) elevations have been reported if congestive heart failure is very acute (first hour) or occurs with ventricular inflow obstruction (hypertrophic obstructive cardiomyopathy, mitral stenosis, atrial myxoma).

**Methodology:** Electrochemiluminescence immunoassay

**References:** [Mayo Clinic Laboratories](#) (December 2023)

**Updates:** 12/22/2023: Fixed error in Mayo test code, updated minimum volume requirements and reference ranges, added specimen stability.