
Lab Dept: Chemistry

Test Name: NT-PRO B-TYPE NATRIURETIC PEPTIDE

General Information

Lab Order Codes: PRBNP

Synonyms: NT-Pro BNP, N-Terminal proBNP, NT proBNP, proBNP

CPT Codes: 83880 – Natriuretic peptide

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

Logistics

Test indications: Aids in the diagnosis of congestive heart failure

Lab Testing Sections: Chemistry – Performed on Minneapolis Campus

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Within 1 hour of receipt at the Minneapolis lab

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble, or red) is preferred. Plasma collected with lithium heparin or EDTA anticoagulants is acceptable.

Draw Volume: 1.0 mL (Minimum: 0.5 mL) blood

Processed Volume: 0.3 mL (Minimum: 0.15 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. Specimen is stable 48 hours at room temperature (20-25°C), 3 days at 2-8°C, or 30 days at -20°C or colder.

Patient Preparation: None.

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

| Age, sex | Reference Interval (pg/mL) (\leq 97.5 th percentile) |
|--|--|
| 0 to <1 years, all | <15.8 to 1594 |
| 1 to <18 years, all | <15.8 to 214 |
| 18 to <50 years old, male 18 to <50 years old, female | <15.8 to 104.8 <15.8 to 180.3 |
| 50 to 75 years old, male 50 to 75 years old, female | <15.8 to 334.1 <15.8 to 451.6 |
| >75 years old, male >75 years old, female | <15.8 to 956.1 <15.8 to 683.0 |

Critical Values: N/A

Limitations: 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).

If the NT-proBNP results are inconsistent with clinical evidence, additional testing is recommended.

The Alere NT-proBNP for Alinity i assay is susceptible to interference effects from total protein >12.6 g/dL. Total protein at 15.2 g/dL decreased NT-proBNP values at 125 pg/mL by -12.7%.

Specimens from patients who have received preparations of mouse monoclonal antibodies for diagnosis or therapy may contain human anti-mouse antibodies (HAMA). Such specimens may show either falsely elevated or depressed values when tested with assay kits such as Alere NT-proBNP for Alinity i that employ mouse monoclonal antibodies. Additional information may be required for diagnosis.

Methodology: Electrochemiluminescence immunoassay

References: Alere NT-proBNP for Alinity i Reagent Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, January 2025

Palm J, Hoffmann G, Klawonn F, Tutarel O, Palm H, Holdenrieder S, et al. Continuous, complete and comparable NT-proBNP reference ranges in healthy children. Clin Chem Lab Med 2020;58:1509-16.

Updates: 9/30/2025: New Assay

