
Lab Dept: Chemistry

Test Name: B-TYPE NATRIURETIC PEPTIDE

General Information

Lab Order Codes: BNTP

Synonyms: BNP; Brain Natriuretic Peptide

CPT Codes: 83880 – Natriuretic peptide

Test Includes: B-type Natriuretic Peptide level reported in pg/mL.

Logistics

Test Indications: B-type natriuretic peptide is a hormone produced by the heart. A B-type Natriuretic Peptide (BNP) test measures the amount of this hormone in blood. Normally, only low levels of BNP are found in the blood. However, if the workload of the heart increases, such as from heart failure, the heart releases additional BNP. The level of BNP in the blood rises when heart failure is present and drops when heart failure is successfully treated.

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: Daily
Stat: Mpls – 1 hour, St Paul – 2 hours (referred to United Hospital STP)

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Lavender top (EDTA) tube

Draw Volume: 1.2 mL (Minimum: 0.6 mL) blood

Processed Volume: 0.4 mL (Minimum: 0.2 mL) plasma

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen, remove plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. If the specimen cannot be analyzed within 4 hours of collection, it may be stored and shipped at frozen temperatures. Forward promptly.

For STAT service in St. Paul - tube samples to United Laboratory.

Patient Preparation: None

Sample Rejection: Hemolysis; mislabeled or unlabeled specimen

Interpretive

Reference Range:

Gender/Age:	Range (pg/mL):
Newborns – 7 days:	<232 pg/mL
Male (>7 days):	<100 pg/mL
Female (<75 yrs):	<150 pg/mL
Female (>75 yrs):	<265 pg/mL

Critical Values: N/A

Limitations: Measurements of BNP should occur prior to Nesiratide (Natrecor) recombinant treatment; and >2 hours post treatment.

HAMA and heterophilic antibodies in patient plasma may cause anomalous values.

Methodology: Abbott Architect i1000SR, chemiluminescence immunoassay

References: Abbott Northwestern Hospital Laboratory, August 2012

Updates: 8/7/2012: Updated reference range due to instrument change. Previously listed at <100 pg/mL for all genders and ages.
8/22/2018: Testing moved in-house.