
Lab Dept: Chemistry

Test Name: OSTEOCALCIN

General Information

Lab Order Codes: OSTE

Synonyms: BGLAP; bone gamma-carboxyglutamic acid-containing protein; N-MID osteocalcin; Osteocalcin (OCN)

CPT Codes: 83937 – Osteocalcin(bone g1a protein)

Test Includes: Osteocalcin level reported in ng/mL

Logistics

Test Indications:

- Monitor response to antiresorptive therapy in postmenopausal women or individuals with osteoporosis
- Does not replace bone mineral density (BMD) screening to diagnose osteoporosis

Lab Testing Sections: Chemistry - Sendouts

Referred to: ARUP Laboratories (ARUP Test: 0020728)

Phone Numbers: MIN Lab: 612-813-62

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours (setup Tuesday - Saturday)

Turnaround Time: 1-4 days

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Red, Marble, or Gold top tubes. Green (Lithium Heparin or Lavender EDTA are also acceptable).

Draw Volume: 1.5 mL (Minimum: 1 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.3 mL) serum/plasma

Collection: Routine blood collection

Special Processing: Lab Staff: Allow serum separator tube to sit for 15-20 minutes at room temperature for proper clot formation. Centrifuge and separate serum or plasma from cells ASAP or within 2 hours of collection. Transfer 1 mL serum or plasma to an ARUP Standard Transport Tube. Store and ship at Frozen temperatures. Forward promptly.

After separation from cells: Ambient: 8 hours; Refrigerated: 72 hours;
Frozen: 3 months

Sample Rejection: Mislabeled or unlabeled specimens; hemolyzed specimen

Interpretive

Reference Range:

Age	Male	Female
6 months-6 years	39-121 ng/mL	44-130 ng/mL
7-9 years	66-182 ng/mL	73-206 ng/mL
10-12 years	85-232 ng/mL	77-262 ng/mL
13-15 years	70-336 ng/mL	33-222 ng/mL
16-17 years	43-237 ng/mL	24-99 ng/mL
18 years and older	11-50 ng/mL	11-50 ng/mL
Interpretive info: In patients with renal failure the osteocalcin result can be elevated, both directly, due to impaired clearance, and indirectly, due to renal osteodystrophy.		

Critical Values: N/A

Limitations: N/A

Methodology: Quantitative Electrochemiluminescent Immunoassay

References: [ARUP Laboratories Web Page](#) (March 2020)