
Lab Dept: Chemistry

Test Name: PTH, INTACT (WITH CALCIUM)

General Information

Lab Order Codes: PTHB

Synonyms: Parathyroid Hormone, Intact

CPT Codes: 83970 – Parathormone (parathyroid hormone)
82310 – Calcium, total

Test Includes: PTH intact (pg/mL) and total calcium (mg/dL)

Logistics

Test Indications: N/A

Lab Testing Sections: Chemistry – Performed at Minneapolis Campus

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Performed daily

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Green (LiHep) NO GEL tube, preferred
Alternate tubes: Green (NaHep) NO GEL, Red NO GEL

Note: Heparinized specimens cannot be sent out for backup testing.

Draw Volume: 2.1 mL (Minimum: 1.2 mL) blood

Processed Volume: 0.7 mL (Minimum: 0.4 mL) serum/plasma

Note: Use of the minimum volume does not allow repeat analysis

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge immediately within 20 minutes of collection.

Transfer aliquots into two screw-capped round bottom plastic vials. One for the Vista and one for the Architect.

Do not leave blood at ambient temperature. Store and ship at frozen temperatures. Forward promptly.

Minimum sample volume requires sample to be aliquoted into an Architect sample cup and placed atop a barcoded sendout tube. Label the Architect cup with a foot label.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens; specimens collected in gel tubes; gross hemolysis; anticoagulants other than listed

Interpretive

Reference Range:

Age:	Range (pg/mL)
Birth – <1 year:	6 – 88 pg/mL
1 – <9 years:	15 – 65 pg/mL
9 – <17 years:	22 – 88 pg/mL
>17 years:	15 – 65 pg/mL
For Calcium: See https://www.childrensmn.org/References/Lab/chemistry/calcium.pdf	

Critical Values: N/A

Limitations: Specimens left at ambient temperature or not separated within 2 hours of draw may affect results.

PTH is relatively unstable. Avoid multiple tube to tube transfers.

Methodology: PTH: Chemiluminescence Immunoassay
Calcium: O-cresolphthaline

References:

Abbott Architect Intact PTH reagent cartridge insert sheet. Abbott Laboratories, Abbott Park IL 60064. Revised January 2016

Abbott Architect Intact PTH calibrator insert sheet. Abbott Laboratories, Abbott Park IL 60064. Revised November 2015

Abbott Architect Safety Data Sheet, Abbott Diagnostics, Abbott Park IL 60064. Revised April 9, 2016

Biorad Lyphochek Specialty Immunoassay Control Product Insert, Bio-Rad Laboratories, Irvine CA 92618. January 2018

Caliper Paediatric Reference Interval, The Hospital for SICK Childrens, Toronto, Ontario, Canada

Updates:

8/13/15: Specimen requirement changes.

4/3/17: Updated specimen processing.

4/17/18: Testing moved from Esoterix to inhouse at Children's.

5/1/18: Collection container and processing instruction update.

4/22/19: Added EDTA specimen type as alternate.

4/25/22: Updated acceptable containers