
Lab Dept: Chemistry

Test Name: T3 (TRIIODOTHYRONINE) TOTAL, SERUM

General Information

Lab Order Codes: TT3

Synonyms: T3 RIA, T3R, Total T3, T3

CPT Codes: 84480 – Triiodothyronine T3; total (TT-3)

Test Includes: T3 concentration reported in ng/mL.

Logistics

Test Indications: T3 (Triiodothyronine) is produced by the thyroid and secreted in response to TSH. T3 is physiologically more potent than T4. 99.7% of T3 is bound to protein and acts as a reserve for the metabolically active free T3. T3 blood levels are useful in assessing hyperthyroidism.

Lab Testing Sections: Chemistry (all testing is performed on the St. Paul campus)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 3 days, test performed Monday – Friday.

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Red, marble or gold top tube

Draw Volume: 1.5 mL (Minimum: 0.6 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.2 mL) serum

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a plastic sample cup. Store at 2 – 8 degrees Centigrade for up to 7 days..

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen; specimens other than serum; gross hemolysis

Interpretive

Reference Range:

Age:	Range (ng/mL):
0 - 6 days:	0.89 - 4.05 ng/mL
7 days - 1 month:	0.91 - 3.00 ng/mL
1 month - 1 year:	0.85 - 2.50 ng/mL
1 - 10 years:	1.19 - 2.18 ng/mL
>10 years:	0.55 - 1.70 ng/mL

Critical Values: N/A

Limitations: Heterophile antibodies may interfere with immunoassay testing.

Methodology: Competitive Immunoassay/Chemiluminescence

References: Siemens Immulite Total T3 Package Insert PIL2KT3-17 (07/29/2008)

Biorad Immunoassay Plus Control Product Insert

Burtis, CA, Ashwood, ER, Bruns, DE, ed (2006) Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition, Philadelphia, PA: WB Saunders

Jacobs and DeMott Laboratory Test Handbook (2001) 5th Edition, Lexicomp Inc

Updates: 2/9/2016: Update container types