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**

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Age:</th>
<th>Range (ng/mL):</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>0 - 6 days:</td>
<td>0.89 - 4.05 ng/mL</td>
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<tr>
<td></td>
<td>7 days - 1 month:</td>
<td>0.91 - 3.00 ng/mL</td>
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<tr>
<td></td>
<td>1 month - 1 year:</td>
<td>0.85 - 2.50 ng/mL</td>
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<tr>
<td></td>
<td>1 - 10 years:</td>
<td>1.19 - 2.18 ng/mL</td>
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<tr>
<td></td>
<td>&gt;10 years:</td>
<td>0.55 - 1.70 ng/mL</td>
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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)

Updates: 2/9/2016: Update container types