**Lab Dept:** Chemistry  
**Test Name:** T3 (TRIIIODOOTHYRONINE) TOTAL, SERUM  

**General Information**  
**Lab Order Codes:** TT3  
**Synonyms:** T3R, Total T3, T3  
**CPT Codes:** 84480 – Triiodothyronine T3; total (TT-3)  
**Test Includes:** T3 concentration reported in ng/dL.  

**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 – Performed on the Minneapolis Campus  
**Phone Numbers:**  
MIN Lab: 612-813-6280  
STP Lab: 651-220-6550  
**Test Availability:** Monday - Friday  
**Turnaround Time:** 1 – 3 days  
**Special Instructions:** N/A  

**Specimen**  
**Specimen Type:** Blood  
**Container:** SST(Gold, marble or red)  
Alternate: Green (LiHep or NaHep), lavender (EDTA)  
**Draw Volume:** 1.2 mL (Minimum: 0.5 mL) blood  
**Processed Volume:** 0.4 mL (Minimum: 0.15 mL) serum  
Note: Minimum volume does not allow for repeat testing or dilution.  
**Collection:** Routine blood collection
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; gross hemolysis

### Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Age:</th>
<th>Range (ng/dL):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 – 1 year:</td>
<td>85 - 234</td>
</tr>
<tr>
<td></td>
<td>1 – 11 years:</td>
<td>113 - 189</td>
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<tr>
<td></td>
<td>12 – 14 years:</td>
<td>98 - 176</td>
</tr>
<tr>
<td></td>
<td>15 – 16 years:</td>
<td>94 - 140</td>
</tr>
<tr>
<td></td>
<td>17 – 18 years:</td>
<td>104 - 135</td>
</tr>
</tbody>
</table>

Critical Values: N/A

Limitations: Heterophile antibodies may interfere with immunoassay testing.

Methodology: Chemiluminescent MicroParticle Immunoassay (CMIA)

References:
- CALIPER Reference Ranges accessed 4/20/28

Updates: 2/9/2016: Update container types
5/15/2018: New method, updated reference ranges
11/19/2019: Updated availability and TAT.