Lab Dept: Chemistry

Test Name: T3 (TRIODOOTHYRONINE) 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: Daily, 24 hrs

Turnaround Time: 1 – 3 days (performed Monday – Friday)

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>Female Range (ng/dL)</th>
<th>Male Range (ng/dL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 days - &lt;1 year:</td>
<td>84.6 - 234</td>
<td>84.6 - 234</td>
<td></td>
</tr>
<tr>
<td>1 - &lt;12 years:</td>
<td>113 - 189</td>
<td>113 - 189</td>
<td></td>
</tr>
<tr>
<td>12 - &lt;15 years:</td>
<td>97.7 - 176</td>
<td>97.7 - 176</td>
<td></td>
</tr>
<tr>
<td>15 - &lt;17 years:</td>
<td>92.5 - 142</td>
<td>93.8 - 156</td>
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</tr>
<tr>
<td>17 - &lt;19 years:</td>
<td>89.8 - 168</td>
<td>89.8 - 168</td>
<td></td>
</tr>
<tr>
<td>Adults:</td>
<td>35 - 193</td>
<td>35 - 193</td>
<td></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 10/27/2020
- Abbott Alinity i Total T3 Reagent Instructions for Use, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, April 2020
- Abbott Alinity i Total T3 Calibrator Kit Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, February 2020
Updates:

2/9/2016: Update container types
5/15/2018: New method, updated reference ranges
11/19/2019: Updated availability and TAT.
12/7/2020: Updated for method Abbott Alinity