Lab Dept: Chemistry
Test Name: CALCITONIN, SERUM

General Information

Lab Order Codes: CALT
Synonyms: Thyrocalcitonin
CPT Codes: 82308 - Calcitonin
Test Includes: Calcitonin level reported in pg/mL.

Logistics

Test Indications: Diagnosis and follow-up of medullary thyroid carcinoma (MTC). Adjunct to diagnosis of multiple endocrine neoplasia type II (MENII) and familial medullary thyroid carcinoma (FMTC). Occasionally useful in the diagnosis and follow-up of islet cell tumors.

Lab Testing Sections: Chemistry - Sendouts
Referred to: Mayo Medical Laboratories (MML Test: 9160/CATN)
Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550
Test Availability: Daily, 24 hours
Turnaround Time: 1 – 3 days, test set up Monday - Saturday
Special Instructions: N/A

Specimen

Specimen Type: Blood
Container: Red top tube
Draw Volume: 3 mL (Minimum: 1.2 mL) blood
Processed Volume: 0.8 mL (Minimum: 0.4 mL) serum
Collection: Routine venipuncture
Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a plastic screw-capped plastic vial. Store and ship at frozen temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Warm specimens; mislabeled specimens or unlabeled specimens

**Interpretive**

Reference Range:

<table>
<thead>
<tr>
<th>Basal</th>
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<tbody>
<tr>
<td><strong>Males:</strong></td>
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<tr>
<td>&lt;16 pg/mL</td>
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<tr>
<td><strong>Females:</strong></td>
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<td>&lt;8 pg/mL</td>
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Peak Calcium Infusion

| **Males:**     |
| ≤130 pg/mL     |
| **Females:**   |
| ≤90 pg/mL      |

Critical Values: N/A

Limitations: Not useful in evaluating metabolic diseases. Falsely elevated values may occur in serum from patients who have developed human antimouse antibodies (HAMA) or heterophilic antibodies.

Methodology: Automated Immunochemiluminescence Assay by Immulite 2000 (ICMA)

References: Mayo Medical Laboratories Web Page October 2014

Updates: 3/14/2004: Test moved from Esoterix to Mayo Medical Laboratories.