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**Lab Dept:** Chemistry

**Test Name:** **CALCITONIN, SERUM**

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***General Information***

**Lab Order Codes:** CALT

**Synonyms:** Thyrocalcitonin

**CPT Codes:** 82308 - Calcitonin

**Test Includes:** Calcitonin level reported in pg/mL.

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***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

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***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

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***Interpretive***

<b>Reference Range:</b>	<b>Basal</b>
	<b><i>Males:</i></b>
	<16 pg/mL
	<b><i>Females:</i></b>
	<8 pg/mL
	<b>Peak Calcium Infusion</b>
	<b><i>Males:</i></b>
	≤130 pg/mL
	<b><i>Females:</i></b>
	≤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.

6/13/2005: Method changed from ICMA by Nichols Diagnostics to ICMA by Diagnostics Products Corporation Immulite 2000.