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**Lab Dept:** Chemistry

**Test Name:** CALCIUM

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***General Information***

**Lab Order Codes:** CA

**Synonyms:** Ca

**CPT Codes:** 82310 – Calcium; total

**Test Includes:** Calcium concentration reported in mg/dL.

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***Logistics***

**Test Indications:** Calcium is the fifth most common element and the most prevalent cation found in the body. Calcium exists in 3 physiochemical states in plasma; free/ionized, bound, and complexed with small anions. Calcium testing is used for assessment and treatment of parathyroid disease, a variety of bone diseases and chronic renal disease.

**Lab Testing Sections:** Chemistry

**Phone Numbers:** MIN Lab: 612-813-6280  
STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 hour

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** **Preferred:** Green top (Li Heparin) tube  
Alternate: Red, marble, or gold top tube

**Draw Volume:** 0.6 mL blood

**Processed Volume:** 0.2 mL plasma/serum

**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen, remove plasma/serum aliquot into plastic sample cup. Analyze sample immediately or store at 2-8 degrees Centigrade for up to 48 hours.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimen

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***Interpretive***

<b>Reference Range:</b>	<b>Age:</b>	<b>Range (mg/dL):</b>
	0 - 6 days:	7.0 – 12.0 mg/dL
	7 days - 12 months:	8.0 – 11.0 mg/dL
	1 - 15 years:	9.0 – 10.8 mg/dL
	>15 years:	8.6 – 10.6 mg/dL

**Critical Values:** <6.0 or >14.0 mg/dL

**Limitations:** N/A

**Methodology:** O-Cresolphthalein Complexone/Colorimetric

**References:** Siemens Dimension Vista CA Reagent Directions For Use, Version E (7/24/2013) Siemens Healthcare Diagnostics Inc

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

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**Updates:** 7/14/2014: Method change from Dimension to Dimension Vista.  
2/8/2016: Update alt tube types