



# Laboratory Service Manual

**Lab Dept:** Urine/Stool

**Test Name:** CALCIUM, TIMED URINE

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## **General Information**

**Lab Order Codes:** UCAQ

**Synonyms:** Ca, Urine Quantitative

**CPT Codes:** 82340 – Calcium; urine quantitative, timed specimen  
81050 – Volume measurement for timed collection, each

**Test Includes:** Urine calcium concentration in mg/dL and mg/collection

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## **Logistics**

**Test Indications:** The amount of calcium excreted into the urine is a measure of renal function, intestinal absorption, skeletal resorption, renal filtration, and dietary intake.

**Lab Testing Sections:** Chemistry

### **Phone Numbers:**

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 day

**Special Instructions:** Submit an entire 24-hour urine collection or 1.0 mL minimum from a random urine collection. No preservative. Refrigerate specimen during and after collection.

**Note:** Starting and ending times of collection are required for a timed urine collection and must be documented electronically or on the proper request form.

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## **Specimen**

**Specimen Type:** Urine, timed collection



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<b>Container:</b>	Plastic leakproof container (No preservative). Urine GUARD® collection container is preferred for a timed urine sample.
<b>Draw Volume:</b>	Submit an entire 24-hour urine collection
<b>Processed Volume:</b>	1.0 mL urine
<b>Collection:</b>	For timed urine collections, empty the bladder, discard the voided sample, and note the start time. Collect all urine voided for the specified time period. At the end of the period, note the finishing time, add the last voided sample to the container by emptying the bladder. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.
<b>Special Processing:</b>	Lab Staff: Acidify calcium aliquot before analysis to a pH of 1-2 with 6N HCL.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Unlabeled specimens

## *Interpretive*

<b>Reference Range:</b>	<b>Calcium 24 hr:</b>	25 – 150 mg/collection
	<b>Diet Dependant:</b>	
	Low Ca <sup>++</sup> Intake:	<5mg/collection
	Average Ca <sup>++</sup> Intake:	50 – 150 mg/collection
	High Ca <sup>++</sup> Intake:	100 – 300 mg/collection
	<b>Note:</b> The reference values are for a 24 hour collection. Specimens collected for other than a 24 hour time period have no reference ranges established.	

<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	O-Cresolphthalein Complexone/Colorimetric
<b>Contraindications:</b>	N/A
<b>References:</b>	Tietz (1999) Clinical Guide to Laboratory Tests, 3 <sup>rd</sup> ed, Philadelphia, WB Saunders Company, pp 1404-1405



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Dimension Calcium Flex Insert, P/N 717123.002 Rev I 6/00