



# Laboratory Service Manual

**Lab Dept:** Urine/Stool

**Test Name:** CREATININE, TIMED URINE

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## ***General Information***

**Lab Order Codes:** CR24

**Synonyms:** Creatinine Quantitative Urine; Creatinine, 24 hour urine

**CPT Codes:** 82570 – Creatinine, other source

81050 – Volume measurement for timed collection, each

**Test Includes:** Urine creatinine concentrations in mg/dL and mg/specimen

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## ***Logistics***

**Test Indications:** Creatinine is a high energy compound used in the metabolic processes of muscle contraction. A portion of the free creatine in muscle spontaneously and irreversibly converts to creatinine. Creatinine is present in all body fluids and secretions. It is freely filtered by the kidney glomeruli and is measured to assess kidney function.

**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. 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>	Minimum: 0.5 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>	N/A
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Unlabeled specimens

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## *Interpretive*

### **Reference Range:**

<b>Age</b>	<b>Concentration mg/collection</b>
3 – 8 years	110 – 680 mg/collection
9 – 12 years	170 – 1410 mg/collection
13 – 17 years	290 – 1870 mg/collection
>17 years	630 – 2500 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 values established.	

<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Alkaline Picrate/Kinetic
<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 1240-1245



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Dimension Creatinine Flex Insert P/N 717033.001-US H 10/02

Pediatric Reference Ranges (1999) 3<sup>rd</sup> ed, AACC Press