

## Aluminum/Creatinine Ratio, Random, Urine

**Test ID:** ALUCR

**Useful for:**

Monitoring aluminum exposure when a 24-hour urine cannot be collected

Monitoring metallic prosthetic implant wear when a 24-hour urine cannot be collected

This test is not an acceptable substitute for serum aluminum measurements and is not recommended for routine aluminum screening.

**Methods:**

ALCU: Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

CRETR: Enzymatic Colorimetric Assay

**Reference Values:**

ALCU:

0-17 years: not established

> or =18 years: <14 mcg/g Creatinine

CRETR:

16-326 mg/dL

**Specimen Requirements:**

**Container/Tube:** Clean, plastic urine collection container

**Preferred:** Urine Tubes, 10 mL (T068)

**Acceptable:** Plastic urine tube or clean, plastic aliquot container with no metal cap or glued insert

**Specimen Volume:** 3 mL

**Collection Instructions:**

1. Collect a random urine specimen.
2. See Trace Metals Analysis Specimen Collection and Transport in Special Instructions for complete instructions.

**Minimum Volume:** 0.7 mL

**Specimen Stability Information:**

Specimen Type	Temperature	Time
Urine	Refrigerate	28 days
	Ambient	14 days
	Frozen	28 days

**Cautions:**

Falsely increased results may be obtained if the specimen is collected in nonacid-washed polypropylene collection vessels or if metal caps are used to seal the container. Preanalytical steps (specimen collection and transport) are the most likely processes that can affect the quality of trace metals analysis in clinical samples. Specimens must be collected and processed following these instructions: Trace Metals Analysis Specimen Collection and Transport.

**CPT Code:**

82570

82108

**Day(s) Performed:** Tuesday      **Report Available:** 1 day

**Questions**

Contact Rebekah Knauer, Laboratory Technologist Resource Coordinator at 800-533-1710.