

## Nickel/Creatinine Ratio, Random, Urine

**Test ID:** NIUCR

**Useful for:**

Preferred specimen type for biomonitoring nickel exposure

**Methods:**

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

CRETR: Enzymatic Colorimetric Assay

**Reference Values:**

**NICKEL:**

0-17 years: not established

Males > or =18 years: <3.8 mcg/g creatinine

Females > or =18 years: <4.3 mcg/g creatinine

**CREATININE:**

16-326 mg/dL

Reference values have not been established for patients less than 18 years of age.

**Specimen Requirements:**

**Container/Tube:** Plastic, 10-mL urine tube

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

**Acceptable:** Plastic, 10-mL 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:** 1.2 mL

**Specimen Stability Information:**

Specimen Type	Temperature	Time
Urine	Refrigerate (preferred)	28 days
	Ambient	14 days
	Frozen	28 days

**Cautions:**

Specimen collection procedures for nickel (Ni) require special collection containers, rigorous attention to ultraclean specimen collection and handling procedures, and analysis in an ultraclean facility. Unless all of these procedures are followed, increased urinary Ni results may be an incidental and misleading finding.

**CPT Code:**

83885

82570

**Day(s) Performed:** Thursday    **Report Available:** 1 to 7 days**Questions**

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