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**Lab Dept:** Urine/Stool

**Test Name:** COPPER, TIMED URINE

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***General Information***

**Lab Order Codes:** UCUQ

**Synonyms:** Cu, Quantitative Urine

**CPT Codes:** 82525 - Copper

**Test Includes:** Urine copper level reported in mcg/24 hrs.

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***Logistics***

**Test Indications:** Useful for investigation of Wilson's disease and obstructive liver disease.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (Test: CUU/8590)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 4 days; test set up Monday, Wednesday, Friday

**Special Instructions:** Refrigerate specimen within 4 hours of completion of 24-hour collection.

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***Specimen***

**Specimen Type:** Urine

**Container:** 24 hour Urine Container

**Draw Volume:** 24 hour urine, submit entire collection to laboratory

**Processed Volume:** 10 mL (Minimum: 0.4 mL) from a 24 hour urine collection

**Collection:** 24 hour urine collection procedures. Collect in clean, plastic urine container(s) with no metal cap(s) or glued insert(s).

**Special Processing:** Lab Staff: Mix 24-hour urine collection well. Measure and record entire collection volume. Remove aliquot into a 13 mL urine tube or a clean, plastic aliquot container with no metal cap or glued insert (aliquot containers are provided by Mayo). Store and ship specimen at refrigerated temperatures. **Do Not** add a preservative.

24-hour volume is required on request form for processing.

**Note:** If a preservative has been added for another collection, refer to Mayo's website for acceptable options.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimen, specimens other than urine

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***Interpretive***

**Reference Range:**

0 - 17 years:	Not established
> or = 18 years:	< or =60 mcg/24h
The reference value is for a 24-hour collection.	

**Critical Values:** N/A

**Limitations:** High concentrations of barium are known to interfere with this test. If barium-containing contrast media has been administered, a specimen should not be collected for 96 hours.

**Methodology:** Dynamic Reaction Inductively Coupled Plasma –Mass Spectrometry (DRC-ICP-MS)

**References:** [Mayo Medical Laboratories](#) (January 2017)

**Updates:** 11/22/2010: Random specimens will no longer be accepted under this order code.  
1/25/2017: Updated units and reference range.