**General Information**

**Lab Order Codes:** UCUQ  
**Synonyms:** Cu, Quantitative Urine  
**CPT Codes:** 82525 - Copper  
**Test Includes:** Urine copper level reported in mcg/24 hrs.

**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.

**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

### Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>0 - 17 years:</th>
<th>Not established</th>
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<tbody>
<tr>
<td></td>
<td>&gt; or = 18 years:</td>
<td>&lt; or =60 mcg/24h</td>
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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](https://www.mayomedicallaboratories.com) (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.