Copper – 24 hr Urine

### Specific Information

<table>
<thead>
<tr>
<th>Laboratory</th>
<th>St James Hospital, Leeds.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen type</td>
<td>24 Hour urine sample</td>
</tr>
<tr>
<td>Container</td>
<td>24 hour plain urine container – please obtain from the laboratory</td>
</tr>
</tbody>
</table>

### Clinical information

Please supply sufficient clinical information necessary for test interpretation

### Special considerations and limitations

Reference ranges

| Reference ranges | Adult: < 1.0 μmol/24hr |

### Clinical significance of test

The main biochemical interest in this element is in Wilson's Disease. Over 90% plasma copper is bound to caeruloplasmin. In Wilson's Disease serum copper and caeruloplasmin levels range from low to low normal with an increased urinary output. Urine copper increases tenfold or more in response to an oral penicillamine challenge.

### Availability of testing

Routine: Mon – Fri
Urgent: No

### Turnaround time

7 to 14 Days

### General Information

<table>
<thead>
<tr>
<th>Volume / quantity requirements</th>
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<tbody>
<tr>
<td>Transportation</td>
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<tr>
<td>Storage</td>
<td>Samples should be transported to laboratory as soon as possible after collection.</td>
</tr>
</tbody>
</table>
| Information for patients      | Please see [labtestsonline.org.uk](http://labtestsonline.org.uk)  
Patient information leaflet  |