Ceruloplasmin

CPT Code: 82390
Order Code: C1369
ABN Requirement: No
Synonyms: Wilson’s Disease; Copper Oxide
Specimen: Serum
Volume: 1.0 mL
Minimum Volume: 0.5 mL
Container: Gel-barrier tube (SST, Tiger Top)

Collection:

Serum:

1. Collect and label sample according to standard protocols.
2. Gently invert tube 5 times immediately after draw. DO NOT SHAKE.
3. Let tube stand in a vertical position to allow blood to clot 30 minutes.
4. Centrifuge at 1300 rcf for 10 minutes at room temperature.

Transport: Store serum at 2-8°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab, Inc. shipping box.

Stability:

Ambient (15-25°C): 7 days
Refrigerated (2-8°C): 60 days
Frozen (-20°C): 90 days
Deep Frozen (-70°C): 90 days

Causes for Rejection: Specimens other than serum; improper labeling; samples not stored properly; samples older than stability limits

Methodology: Nephelometry (NEPH)

Turn Around Time: 4 days

Reference Range:
<table>
<thead>
<tr>
<th>Age</th>
<th>Male, mg/dL</th>
<th>Female, mg/dL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30 days</td>
<td>8-25</td>
<td>3-28</td>
</tr>
<tr>
<td>31 days-11 months</td>
<td>15-48</td>
<td>15-43</td>
</tr>
<tr>
<td>1-3 years</td>
<td>25-56</td>
<td>29-54</td>
</tr>
<tr>
<td>4-6 years</td>
<td>29-56</td>
<td>26-54</td>
</tr>
<tr>
<td>7-9 years</td>
<td>25-52</td>
<td>23-48</td>
</tr>
<tr>
<td>10-12 years</td>
<td>21-51</td>
<td>21-48</td>
</tr>
<tr>
<td>13-15 years</td>
<td>20-50</td>
<td>21-46</td>
</tr>
<tr>
<td>16-18 years</td>
<td>20-45</td>
<td>22-50</td>
</tr>
<tr>
<td>&gt;18 years</td>
<td>18-36</td>
<td>18-53</td>
</tr>
</tbody>
</table>

**Intended Use:** Evaluation of Wilson’s disease (hepatolenticular degeneration), liver cirrhosis, and copper deficiency.

**Limitations:** Oral contraceptives may cause increased values. Because ceruloplasmin is an acute phase reactant, use caution in interpreting results where inflammation or infection are present.

**Clinical Significance:** Ordered with a blood or urine copper test, ceruloplasmin helps in the diagnosis of Wilson’s disease.