Prealbumin

CPT Code: 84134
Order Code: C1543
ABN Requirement: No
Synonyms: Transthyretin, Thyroxine Binding Prealbumin
Specimen: Serum
Volume: 1.0 mL
Minimum Volume: 0.5 mL
Container: Gel-barrier tube (SST, Tiger Top)

Collection:

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): 14 days
Frozen (-20°C): 4 months
Deep Frozen (-70°C): 4 months

Causes for Rejection: Specimens other than serum; improper labeling; samples not stored properly; samples older than stability limits; grossly hemolyzed or lipemic specimens

Methodology: Nephelometry (NEPH)

Turn Around Time: 2 to 4 days

Reference Range:
<table>
<thead>
<tr>
<th>Age</th>
<th>mg/dL</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤5 days</td>
<td>6-21</td>
</tr>
<tr>
<td>6 days – 12 months</td>
<td>Not Established</td>
</tr>
<tr>
<td>1-5 years</td>
<td>14-30</td>
</tr>
<tr>
<td>6-9 years</td>
<td>15-33</td>
</tr>
<tr>
<td>10-13 years</td>
<td>20-26</td>
</tr>
<tr>
<td>14-17 years</td>
<td>22-45</td>
</tr>
<tr>
<td>Adult Males</td>
<td>21-43</td>
</tr>
<tr>
<td>Adult Females</td>
<td>17-34</td>
</tr>
</tbody>
</table>

**Clinical Significance:** Prealbumin is decreased in protein-calorie malnutrition, liver disease, and acute inflammation. It may be used as an indicator of nutritional requirements and response to therapy during total parenteral nutrition and as a biochemical marker of nutrition adequacy in premature infants.