Activated Partial Thromboplastin Time (APTT/PTT)

CPT Code: 85730
Order Code: C2441
ABN Requirement: No
Synonym: APTT; Partial Thromboplastin Time; PTT
Specimen: Sodium Citrate Plasma
Volume: 1.0 mL
Minimum Volume: 0.5 mL
Container: Sodium citrate (Light Blue top) tube

Collection:

**Sodium Citrate Plasma:**

1. Draw a full tube and gently invert 3 to 4 times.
2. Centrifuge immediately for 10 minutes at 1300 RCF at room temperature.
3. Pre-squeeze transfer pipet bulb and draw off approximately 2/3 of the upper plasma layer.  
   **Note:** This ensures that the buffy coat and red cells remain undisturbed.
4. Aliquot plasma into labeled transport tube and cap tightly. Discard original tube.
5. Store transport tube refrigerated at -20°C until ready to ship.

Transport: Store plasma at -20°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab, Inc. shipping box.

- **Please note:** Ship frozen sodium citrate plasma on dry ice.

**Special Information:** Sodium citrate collection tube **must** be filled to total fill volume.

**Stability:**

- **Ambient (15-25°C):** 4 hours
- **Refrigerated (2-8°C):** Unacceptable
- **Frozen (-20°C):** 14 days
- **Deep Frozen (-70°C):** 6 months

**Causes for Rejection:** Specimens other than sodium citrate plasma; improper labeling; samples not stored properly; samples older than stability limits; sample received not frozen

**Methodology:** Automated Optimal Clot Detection

**Turn Around Time:** 2-3 days
**Reference Range:**

<table>
<thead>
<tr>
<th>Age</th>
<th>sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1 days</td>
<td>27.1-43.7</td>
</tr>
<tr>
<td>2-5 days</td>
<td>22.0-48.0</td>
</tr>
<tr>
<td>6-30 days</td>
<td>22.1-44.3</td>
</tr>
<tr>
<td>1-3 months</td>
<td>20.8-40.2</td>
</tr>
<tr>
<td>4-11 months</td>
<td>24.3-34.4</td>
</tr>
<tr>
<td>1-99 years</td>
<td>23.0-32.4</td>
</tr>
</tbody>
</table>

**Urgent Range:**

<table>
<thead>
<tr>
<th>Age</th>
<th>sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Ages</td>
<td>&gt;100.0</td>
</tr>
</tbody>
</table>

**Intended Use:** Evaluation of hemostasis.

**Clinical Significance:** APTT/PTT may be used to investigate unexplained bleeding or clotting. Proteins called coagulation factors are involved in hemostasis and the formation of blood clots. The combination of APTT/PTT with Prothrombin Time (PT/INR) may give additional insight into a bleeding or clotting disorder.