Lab Dept: Coagulation

Test Name: RAPID TEG WITH HEPARINASE

General Information

Lab Order Codes: RTEGH

Synonyms: Rapid Thromboelastograph with heparinase; RTEGH

CPT Codes: 85576 – Platelet aggregation, each agent 85347 – Coagulation time, activated 85384 – Fibrinogen; activity 85390 – Fibrinolysins or coagulopathy screen, interpretation and report

Test Includes: RTEG parameters, R, K, Angle, MA, G and LY30 evaluated with heparinase.

Logistics

Test Indications: Assess hemorrhagic or thrombic risk by measuring rate of clot formation, strength and stability of clot; the effect of platelets, coagulation factors and cellular interactions.

Rapid TEG reagent simultaneously activates the intrinsic and extrinsic coagulation pathways by adding tissue factor to the test system.

This decreases the time it takes to form a clot, allowing for faster turnaround times.

It would be indicated in trauma or surgical situations.

Not to be used with Platelet Mapping.

Lab Testing Sections: Coagulation (Performed on Minneapolis campus)

Phone Numbers MIN Lab: 612-813-6280

Test Availability: Daily, 24 hours

Turnaround Time: 2 hours

Special Instructions: Deliver immediately to the laboratory. Specimens MUST be walked to the laboratory and cannot be delivered via pneumatic tube. Must arrive in lab within 1 hour of collection. Indicate when specimen is drawn from a line or heparin lock.

Specimen
Specimen Type: Whole blood

Container: Light Blue top (Buffered Na Citrate 3.2%) tube

Draw Volume: 2.7 mL blood (in 3 mL tube)
Minimum: 1.8 mL blood in a 2 mL tube

Processed Volume: Same as Draw Volume

Collection: A clean venipuncture or line draw is essential. Mix specimen thoroughly by gentle inversion.

Patient’s with a hematocrit level >55% must have a special tube made to adjust for the hematocrit; contact laboratory for special tube

Indicate when specimen is drawn from a line or heparin lock.

Specimens must be hand delivered to the laboratory. No pneumatic tubing of TEG specimens.

Special Processing: Lab Staff: Do Not centrifuge. Do Not freeze. Deliver to TEG workstation for immediate testing.

Patient Preparation: None

Sample Rejection: Improper tube; clotted sample; underfilled tubes; overfilled tubes; mislabeled or unlabeled tubes

**Interpretive**

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>RTEGH Test:</th>
<th>Range (all ages):</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>0.3 – 0.8 minutes</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>0.5 – 2.3 minutes</td>
<td></td>
</tr>
<tr>
<td>Angle</td>
<td>64.0 – 80.0 degrees</td>
<td></td>
</tr>
<tr>
<td>MA</td>
<td>52.0 – 71.0 mm</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>5.4 – 12.2 kd/sc</td>
<td></td>
</tr>
<tr>
<td>LY30</td>
<td>0.0 – 5.0 %</td>
<td></td>
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</tbody>
</table>

Critical Values: N/A

Limitations: Use of the pneumatic tube can alter patient TEG result values.
**Methodology:**
TEG Viscoelastic Clot Assessment

**References:**
Haemonetics (2014)