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**Lab Dept:** Coagulation

**Test Name:** RAPID TEG WITH HEPARINASE

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***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.

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***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.

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***Specimen***

<b>Specimen Type:</b>	Whole blood
<b>Container:</b>	Light Blue top (Buffered Na Citrate 3.2%) tube
<b>Draw Volume:</b>	2.7 mL blood (in 3 mL tube) Minimum: 1.8 mL blood in a 2 mL tube
<b>Processed Volume:</b>	Same as Draw Volume
<b>Collection:</b>	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.  <b>Specimens must be hand delivered to the laboratory. No pneumatic tubing of TEG specimens.</b>
<b>Special Processing:</b>	Lab Staff: Do Not centrifuge. Do Not freeze. Deliver to TEG workstation for immediate testing.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Improper tube; clotted sample; underfilled tubes; overfilled tubes; mislabeled or unlabeled tubes

***Interpretive***

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

**Critical Values:** N/A

**Limitations:** Use of the pneumatic tube can alter patient TEG result values.

**Methodology:** TEG Viscoelastic Clot Assessment

**References:** Haemonetics (2014)

Haemonetics TEG 5000 Technical Manual (2008)