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**Lab Dept:** Coagulation

**Test Name:** TEG WITH PLATELET INHIBITION

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***General Information***

**Lab Order Codes:** TEGP

**Synonyms:** Thromboelastograph with platelet mapping; Platelet Inhibition; Platelet Mapping

**CPT Codes:** 85576 x5 – Platelet aggregation, each agent  
85347 x2 – Coagulation time, activated  
85384 x2 – Fibrinogen; activity  
85390 x2– Fibrinolysins or coagulopathy screen, interpretation and report

**Test Includes:** TEG parameters, AAPI (Platelet Arachidonic Acid) and AADP (Platelet Adenosine Diphosphate) reported as % Inhibition, TEG and/or TEG with heparin parameters (R, K, Angle, MA, G, LY30) will also be reported (if appropriate).

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***Logistics***

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

**Lab Testing Section:** Coagulation

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** 7 AM – 1330 PM, 7 days a week. Must be received in lab by 1330 PM.

**Turnaround Time:** 2 hours

**Special Instructions:** \* **Please notify the laboratory** at 5-6268 (612-813-6268) one –two hours before collecting the sample.  
\* Once the specimen is collected, 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 a heparin lock.

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***Specimen***

**Specimen Type:** Whole blood

**Container:** Light Blue top (Buffered Na Citrate 3.2%) tube AND Green top NO GEL (LiHep or NaHep)  
NOTE: Both tubes MUST be drawn together

**Draw Volume:** Blue top (Na Citrate) tube: 2.7 mL or 1.8 mL AND  
Green top NO GEL (LiHep or NaHep) tube: 3 mL (minimum)

\*\*\* Deliver BOTH TUBES immediately to the Lab.

**Specimens must be hand delivered to the laboratory. No pneumatic tubing of TEG specimens. No Gel tubes will be accepted.**

**Processed Volume:** Same as Draw Volume

**Collection:** A clean venipuncture or line draw is essential. Mix specimen thoroughly by gentle inversion. Specimen must arrive within 1 hour of collection. Do not send via pneumatic tube system.

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.

**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 specimens

**Medication Exclusion List:**

NSAID: Aspirin (all brands), Ibuprofen, Naproxen, Diclofenac (Volteran), Piroxicam (Feldene)

Anti-Platelet Medications: Clopidogrel (Plavix), Prasugrel (Effient)

All Statins: Atorvastatin, Simvastatin, Rosuvastatin, Lovastatin

Antihistamines: Chlorpheniramine (Clor-trimeton), Diphenhydramine (Benadryl)

SSRI-Antidepressants: Prozac (Fluoxetine), Zoloft (Sertraline), Celexa (Citalopram), Lexapro (escitalopram)

Tricyclic Antidepressants: Amitriptyline, (Elavil, Endep, and others), Imipramine (Tofranil), Nortriptyline (Pamelor, Aventyl)

Some Antibiotics: All penicillin and amoxicillin, Sulfonamides, Chloramphenicol, Vancomycin

Cardiovascular/Blood Pressure Meds: Nitroprusside, Nitroglycerin, Metoprolol, Atenolol, Propranolol, Nebivolol, Pindolol, Verapamil, Nifedipine, Diltiazem

Anticoagulants: Heparin, Low Molecular Weight Heparin (Lovenox and all brands), Coumadin

Direct Thrombin Inhibitors (DTI): Dabigatran (Pradaxa), Rivaroxaban (Xarelto)

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**Interpretive**

**Reference Range:**

<b>TEG Test:</b>	<b>Range (all ages)</b>
AAPI	No reference range (% Inhibition)
ADPI	No reference range (% Inhibition)
R	1.0 – 5.0 minutes
K	1.0 – 3.0 minutes
Angle	53.0 – 72.0 degrees
MA	50.0 – 70.0 mm

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G	4.5 – 11.0 kd/sc
LY30	0.0 – 8.0 %

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** TEG Viscoelastic Clot Assessment

**References:** [Haemonetics](#) (2014)

Haemonetics TEG 5000 Technical Manual (2008)

**Updates:** 8/6/2014: Updated Test Availability, previously listed as Daily, 24 hours.  
4/7/16: Add Green No Gel tube info.

11/5/2024: Added list of Medication Exclusions