MAYO CLINIC LABORATORIES

Test Definition: PTNT

Prothrombin G20210A Mutation, Blood

Reporting Title: Prothrombin G20210A Mutation, B
Performing Location: Rochester

Ordering Guidance:

This assay will only detect the *F2* c.*97G>A (rs1799963) variant associated with thrombophilia. To detect other pathogenic alterations in the *F2* gene of a patient with a laboratory diagnosis of thrombophilia, order F2NGS / F2 Gene Next Generation Sequencing, Varies.

This assay will not detect alterations in individuals with thrombophilia caused by mechanisms other than the *F2* c.*97G>A variant. For those situations consider ordering AATHR / Thrombophilia Profile, Plasma and Whole Blood.

Specimen Requirements:

Patient Preparation: A previous bone marrow transplant from an allogenic donor will interfere with testing. Call 800-533-1710 for instructions for testing patients who have received a bone marrow transplant.
Container/Tube:
Preferred: Lavender top (EDTA)
Acceptable: Yellow top (ACD solution B), light-blue top (sodium citrate)
Specimen Volume: 3 mL
Collection Instructions:
1. Invert several times to mix blood.
2. Send specimen in original tube. **Do not** aliquot.

Forms:

1. **New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available in Special Instructions:
-Informed Consent for Genetic Testing (T576)
-Informed Consent for Genetic Testing-Spanish (T826)
2. Coagulation Patient Information (T675) in Special Instructions

Specimen Type	Temperature	Time	Special Container
Whole blood	Ambient (preferred)	14 days	
	Frozen	14 days	
	Refrigerated	14 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
21803	Prothrombin G20210A Mutation, B	Alphanumeric		24475-6
21804	PTNT Interpretation	Alphanumeric		69049-5
21806	PTNT Reviewed By	Alphanumeric		18771-6

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

81240-F2 (prothrombin, coagulation factor II) (eg, hereditary hypercoagulability) gene analysis, 20210G>A variant

Reference Values:

Negative