

Overview

Method Name

Polymerase chain reaction (PCR) and restriction fragment length polymorphism (RFLP) technologies.

NY State Available

Yes

Specimen

Specimen Type

Whole blood

Specimen Required

Specimen Type: Whole Blood

Preferred: EDTA

Acceptable: ACD (Yellow top)

Specimen volume: 5 mL

Collection Instructions: Draw 5 mL whole blood in a lavender top (EDTA) or yellow top (ACD) tube. Send refrigerated.

Forms

[New York Clients - Informed consent is required.](#) Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing is available in Special Instructions.

Reject Due To

Hemolysis NA

Lipemia NA

Icteric NA

Other NA

Specimen Minimum Volume

1.00 mL

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Whole blood	Refrigerated (preferred)	8 days	
	Ambient	8 days	

Clinical & Interpretive

Clinical Information

The PAI-1 4G allele is an inherited characteristic. If the polymorphism is present in a heterozygous or homozygous fashion, we recommend that the patient and their family consider genetic counseling to obtain additional information on inheritance and to identify other family members at risk.

If a patient possesses two or more congenital or acquired risk factors, the risk of disease may rise to more than the sum of the risk ratios for the individual risk factors. For instance, a combination of the 4G/4G genotype and the insulin resistance syndrome may confer an increase in cardiovascular disease risk over that conferred by the presence of an isolated PAI-1 4G/4G polymorphism.

Cautions

Genetic testing by PCR provides exceptionally high sensitivity and specificity. Incorrect genotyping results can be caused by rare polymorphisms in primer binding sites and to misidentification of specimens by collectors or laboratory personnel. This assay analyzes only the PAI 4G/5G locus and does not measure genetic abnormalities elsewhere in the genome.

Clinical Reference

Barcellona D. Thromb Haemost. 2003;90:1061.;Dossenbach-Glaninger. Clin Chem. 2003;49:1081.; Kohler et al. NEJM. 200;342:1792.; Margaglione M et al. Arterioscl Thromb and Vasc Bio. 1998;18:152.

Performance**Method Description**

Patient DNA was evaluated for the PAI-1 4G/5G promoter polymorphism, which is a single base pair guanine (4G/5G) deletion/insertion polymorphism, using polymerase chain reaction (PCR) technology and restriction fragment length polymorphism (RFLP).

PDF Report

No

Performing Laboratory Location

Esoterix Coagulation

Fees & Codes**Test Classification**

This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

CPT Code Information

81400