Prothrombin (F2) G20210A Mutation Analysis by Real-Time PCR

Clinical Indication and Relevance
Please refer to the following references.

Methodology
DNA is isolated from the patient sample and the prothrombin gene containing the 20210 mutation site is PCR-amplified and analyzed using an allelic discrimination assay employing primers and TaqMan probes. Results are reported as normal, heterozygous or homozygous for the G20210A mutation.

Sensitivity
N/A

Turn-around Time
Five to ten working days

Sample Requirements
Collect
Peripheral blood (PB): 3-5 mL (1mL minimum), in purple top (sodium EDTA) tube; yellow top (ACD) tube acceptable.

Transport
Ambient or 2-8°C (wet ice or cold packs). Do not freeze.

Stability
Ambient - 8 hours; refrigerated - 48 hours.

Unacceptable Samples
Serum or plasma; frozen peripheral blood; clotted blood; severely hemolyzed samples.

CPT Code(s)
81240: F2 (prothrombin, coagulation factor II) gene analysis, 20210 G>A variant
G0452-26: Molecular pathology procedure; physician interpretation and report