

# Thrombotic Risk Reflex Panel

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This panel may be used to evaluate for inherited and acquired thrombophilias (eg, [antiphospholipid syndrome](#), [factor V Leiden](#)). This reflex panel provides a multistep combination of clot-based and other assays.

## Test Description

## Test Components and Reflex Patterns

When the Thrombotic Risk Reflex Panel is ordered, nine initial tests will always be ordered and performed by ARUP. These tests may also be ordered separately.

### Featured ARUP Testing

#### Thrombotic Risk Reflex Panel 3017156

**Method:** Electromagnetic Mechanical Clot Detection/Chromogenic Assay/Quantitative Enzymatic Assay/Semi-Quantitative Enzyme-Linked Immunosorbent Assay (ELISA)/Polymerase Chain Reaction (PCR)/Fluorescence Monitoring/Microlatex Particle-Mediated Immunoassay

### Tests Always Performed as Part of Thrombotic Risk Reflex Panel (3017156)

| Test  | Method  | Standalone Test Code |
|---|---|----------------------|
| Antithrombin, Enzymatic (Activity)                              | Chromogenic assay   | 0030010              |
| Protein S Free, Antigen   | Microlatex particle-mediated immunoassay  | 0098894              |
| Protein C, Functional   | Electromagnetic mechanical clot detection   | 0030113              |
| Beta-2 Glycoprotein 1 Antibodies, IgG and IgM                   | Semi-quantitative enzyme-linked immunosorbent assay   | 0050321              |
| Cardiolipin Antibodies, IgG and IgM                             | Semi-quantitative enzyme-linked immunosorbent assay   | 0099344              |
| Prothrombin ( <i>F2</i> ) c.*97G>A (G20210A) Pathogenic Variant | Polymerase chain reaction (PCR)/fluorescence monitoring   | 0056060              |
| Homocysteine, Total   | Quantitative enzymatic assay  | 0099869              |
| APC Resistance Profile with Reflex to Factor V Leiden           | Electromagnetic mechanical clot detection/polymerase chain reaction (PCR)/fluorescence monitoring | 0030192              |
| Lupus Anticoagulant Reflex Panel                                | Electromagnetic mechanical clot detection/chromogenic assay                                       | 3017009              |

Based on the results of the above assays, the following tests may be performed by reflex (additional charges apply):

### Tests That May Be Performed by Reflex as Part of Thrombotic Risk Reflex Panel (3017156)

| Reflex Reason   | Test Added (Code)  | Method                          |
|---|--|---------------------------------|
| Activated protein C (APC) resistance is low or invalid according to APC Resistance Profile with Reflex to Factor V Leiden (0030192) | Factor V Leiden by PCR (0030194)   | Polymerase chain reaction (PCR) |
| Specific findings within the Lupus Anticoagulant Reflex Panel   | Refer to the <a href="#">Lupus Anticoagulant Reflex Panel</a> Test Fact Sheet for information about the Lupus Anticoagulant Reflex Panel (3017009) |                                 |

# Test Interpretation

## Sensitivity/Specificity

Varies

## Results

Interpretive information, including the Reference Interval, is provided for each test component. Refer to the Example Reports on the [ARUP Laboratory Test Directory](#) for more information. For more information about anticoagulant neutralization in the lupus anticoagulant panel, refer to the [Lupus Anticoagulant Reflex Panel Test Fact Sheet](#).

## Limitations

- Results should be interpreted within the context of a patient's complete clinical picture.
- The following factors may result in test interference or spurious results:
  - Acute phase reactions due to pregnancy, malignancy, inflammatory or infectious states, or trauma
  - Liver disease
  - Anticoagulant medications
  - Residual platelets ( $\geq 10,000$  platelets/uL) in the plasma sample

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