MAYO CLINIC LABORATORIES

Test Definition: F9_IS

Factor IX Inhib Scrn

Overview

Useful For

Detecting the presence of a specific factor inhibitor directed against coagulation factor IX

Special Instructions

- Coagulation Guidelines for Specimen Handling and Processing

Method Name

Only orderable as a reflex. For more information see:

9INHE / Factor IX Inhibitor Evaluation, Plasma

ALUPP / Lupus Anticoagulant Profile, Plasma

ALBLD / Bleeding Diathesis Profile, Limited, Plasma

APROL / Prolonged Clot Time Profile, Plasma

Optical Clot-Based

NY State Available

Yes

Specimen

Specimen Type

Plasma Na Cit

Specimen Required

Only orderable as a reflex. For more information see:

9INHE / Factor IX Inhibitor Evaluation, Plasma

ALUPP / Lupus Anticoagulant Profile, Plasma

ALBLD / Bleeding Diathesis Profile, Limited, Plasma

APROL / Prolonged Clot Time Profile, Plasma

See Coagulation Guidelines for Specimen Handling and Processing in Special Instructions: Guidelines for Specimen Handling and Processing.

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject

Specimen Minimum Volume

2 mL

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Plasma Na Cit	Frozen (preferred)	14 days	

Clinical & Interpretive

Clinical Information

Patient plasma, normal pooled plasma (NPP), and a mixture of patient plasma and NPP are each tested for a specific factor, incubated at 37 degrees C for 1 hour, and then retested for the same factor. In addition, a new mixture of patient plasma and NPP is prepared using the incubated plasmas and tested after the 1 hour incubation. The percentage of the recovered factor for each individual plasma and mixture being tested is calculated and compared. The procedure demonstrates the effect of a specific coagulation factor inhibitor on that factor present in normal pooled plasma, over a specific period of time.

An inhibitor directed against a coagulation factor may arise due to multiple exposures from transfusions in a patient deficient in that factor (as in the case of hemophiliacs), in response to certain disease states, or be drug-induced. Non-specific inhibitors may also be present in patients that will prolong screening tests (eg, prothrombin time and activated partial thromboplastin time). This test is used to qualitatively identify an inhibitor to a specific coagulation factor.

Reference Values

Only orderable as a reflex. For more information see:

9INHE / Factor IX Inhibitor Evaluation, Plasma

ALUPP / Lupus Anticoagulant Profile, Plasma

ALBLD / Bleeding Diathesis Profile, Limited, Plasma

APROL / Prolonged Clot Time Profile, Plasma

Negative

Interpretation

An interpretive report will be provided when testing is completed.

Cautions

Occasionally, a potent lupus-like anticoagulant may cause false-positive testing for a specific factor inhibitor (eg, factor VIII or IX).

Clinical Reference

1. Bowie EJW, Thompson JH Jr, Didisheim P, Owen CA Jr: Mayo Clinic Laboratory Manual of Hemostasis. WB Saunders Company, 1971, pp 111-115

2. Chitlur M, Warrier I, Rajpurkar M, et al: Inhibitors in factor IX deficiency a report of the ISTH-SSC international FIX inhibitor registry (1997-2006). Haemophilia 2009;15(5):1027-1031

3. Laboratory Hematology Practice. Edited by K Kottke-Marchant. Wiley Blackwell Publishing, 2012

Performance

Method Description

The factor IX inhibitor screen is performed on the Instrumentation Laboratory ACL TOP. The assay consists of measuring the factor IX activity (prothrombin time based assay) before and after incubation of a mixture of normal plasma and patient's plasma for 1 hour at 37 degrees C. Interpretation of the presence or absence of the indication of a factor IX inhibitor is determined by comparing the factor IX activity results and the calculated expected values.(Owen CA Jr, Bowie EJW, Thompson JH Jr: The Diagnosis of Bleeding Disorders. Second edition. Little Brown and Company, 1975, pp14-144; Meijer P, Verbruggen and Spannagi M: Chapter 33: Clotting factors and inhibitors: Assays and Interpretation. In Laboratory Hematology Practice. Edited by K Kottke-Marchant. Wiley Blackwell Publishing, 2012, pp 435-446)

PDF Report

No

Specimen Retention Time

7 days

Performing Laboratory Location
Rochester

Fees & Codes

Test Classification
This test has been modified from the manufacturer's instructions. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information
85335

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
F9_IS	Factor IX Inhib Scrn	30086-3

Result ID	Reporting Name	LOINC®
7802	Factor IX Inhib Scrn	30086-3