

Factor X Inhibitor Screen, Plasma

Overview

Useful For

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

Special Instructions

Coagulation Guidelines for Specimen Handling and Processing

Method Name

Only orderable as a reflex. For more information see: 10INE / Factor X Inhibitor Evaluation, 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: 10INE / Factor X Inhibitor Evaluation, Plasma ALBLD / Bleeding Diathesis Profile, Limited, Plasma APROL / Prolonged Clot Time Profile, Plasma

For more information see Coagulation Guidelines for Specimen Handling and Processing.

Specimen Minimum Volume

2 mL

Reject Due To

Gross	Reject
hemolysis	
Gross lipemia	Reject
Gross icterus	Reject



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Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Plasma Na Cit	Frozen	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: 10INE / Factor X Inhibitor Evaluation, Plasma ALBLD / Bleeding Diathesis Profile, Limited, Plasma APROL / Prolonged Clot Time Profile, Plasma

Negative

Interpretation

When testing is complete, if factor activity results fall within clinically normal ranges, an interpretive comment will be provided noting that inhibitor testing was not indicated and, therefore, not performed. If factor activity indicates the performance of inhibitor screen testing, an interpretive comment will be provided noting the presence or absence of a factor X inhibitor.

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; 1971:111-115
- 2. Laboratory Hematology Practice. In: Kottke-Marchant K, ed. Wiley Blackwell Publishing; 2012
- 3. Hematology: Basic Principles and Practice. In: Hoffman R, Benz EJ Jr, Silberstein LE, eds. 7th ed. Elsevier; 2018



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Performance

Method Description

The factor X inhibitor screen is performed on the Instrumentation Laboratory ACL TOP. The assay consists of measuring the factor X 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 X inhibitor is determined by comparing the factor X activity results and the calculated expected values. (Owen CA Jr, Bowie EJW, Thompson JH Jr. The Diagnosis of Bleeding Disorders. 2nd ed. Little, Brown, and Company; 1975:14-144; Meijer P, Verbruggen HW, Spannagi M. Clotting factors and inhibitors: Assays and Interpretation. Chapter 33. In: Kottke-Marchant K, ed. Laboratory Hematology Practice. Wiley Blackwell Publishing; 2012:435-446)

PDF Report

No

Day(s) Performed

Monday through Friday

Report Available

1 to 3 days

Specimen Retention Time

7 days

Performing Laboratory Location

Mayo Clinic Laboratories - Rochester Main Campus

Fees & Codes

Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact <u>Customer Service</u>.

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



Factor X Inhibitor Screen, Plasma

Test ID	Test Order Name	Order LOINC® Value
10_IS	Factor X Inhib Scrn	39556-6

Result ID	Test Result Name	Result LOINC® Value
7812	Factor X Inhib Scrn	39556-6