

Chromogenic Factor VIII Activity Assay, Plasma

Test ID: CHF8

Useful for:

Monitoring coagulation factor replacement therapy of selected extended half-life coagulation factor replacements.

Aiding in the diagnosis of hemophilia A using a 2-stage assay, especially when the 1-stage assay was normal.

Method:

Chromogenic

Reference Values:

55.0 – 200.0%

Chromogenic Factor VIII activity generally correlates with the one-stage FVIII activity. In full term/premature neonates, infants, children, and adolescents the one-stage FVIII activity* is similar to adults. However, no similar data for chromogenic FVIII activity are available. (Appel JTH 2012;10:2254)

*See Pediatric Hemostasis References section in [Coagulation Guidelines for Specimen Handling and Processing](#) in Special Instructions.

Specimen Requirements:

Specimen Type: Platelet-poor plasma

Collection Container/Tube: Light-blue top (3.2% sodium citrate)

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL

Collection Instructions:

1. Specimen must be collected prior to factor replacement therapy.
2. For complete instructions see [Coagulation Guidelines for Specimen Handling and Processing](#) in Special Instructions.
3. Centrifuge, transfer all plasma into a plastic vial, and centrifuge plasma again.
4. Aliquot plasma into plastic vial leaving 0.25 mL in the bottom of centrifuged vial.
5. Freeze plasma immediately (no longer than 4 hours after collection) at -20 degrees C or, ideally, < or =-40 degrees C.

Minimum Volume: 0.5 mL

Additional Information

1. Double centrifuged specimen is critical for accurate results as platelet contamination may cause spurious results.
2. Each coagulation assay requested should have its own vial.

Specimen Stability Information:

Specimen Type	Temperature	Time
Plasma Na Cit	Frozen	14 days

Cautions:

Excess heparin and dilution contamination due to improper specimen collection through an intravenous access device may result in artifactually decreased results.

The 1-stage and chromogenic factor VIII (FVIII) assay results should correlate in the normal population but may be discordant in the hemophilia population and when measuring FVIII replacement.

CPT Code:

85130

Day(s) Setup: Monday through Friday **Analytic Time:** 1 day

Questions

Contact Bonnie Meyers, Laboratory Technologist Resource Coordinator at 800-533-1710.