<table>
<thead>
<tr>
<th><strong>Lab Dept:</strong></th>
<th>Coagulation</th>
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<tbody>
<tr>
<td><strong>Test Name:</strong></td>
<td>BETHESDA FACTOR VIII NORMAL PLASMA</td>
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</table>

**General Information**

<table>
<thead>
<tr>
<th><strong>Lab Order Codes:</strong></th>
<th>BTHNP</th>
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<tbody>
<tr>
<td><strong>Synonyms:</strong></td>
<td>Factor 8 Inhibitor Normal Plasma</td>
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<tr>
<td><strong>CPT Codes:</strong></td>
<td>85335 – Factor inhibitor test 85325 – Heparin neutralization (if applicable)</td>
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<tr>
<td><strong>Test Includes:</strong></td>
<td>Bethesda Assay, PTT inhibitor/inactivator assay, possibly heparin neutralization by hepzyme if necessary</td>
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**Logistics**

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<tr>
<th><strong>Test Indications:</strong></th>
<th>The assay is designed specifically to measure the concentration of anti-Factor 8 antibodies in patients with hemophilia A. One Bethesda Unit is the amount of antibody that will inactivate 0.5 U/mL (50%) of Factor 8. Patients with spontaneous (acquired) antibodies will give variable results because of the unique conditions of the test and the nature of these types of antibodies.</th>
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<tbody>
<tr>
<td><strong>Lab Testing Section:</strong></td>
<td>Coagulation - Sendouts</td>
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<tr>
<td><strong>Referred to:</strong></td>
<td>Fairview University Medical Center (Fairview/Atlas test: BETH2)</td>
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</tbody>
</table>
| **Phone Numbers:** | MIN Lab: 612-813-6280  
STP Lab: 651-220-6550 |
| **Test Availability:** | Daily, 24 hours. Performed as needed. |
| **Turnaround Time:** | Results are reported within 2 - 4 days. |
| **Special Instructions:** | Indicate on request form when the last factor VIII concentrate or cryoprecipitate was administered. No Heparin can be present in the specimen. **Note:** Fairview University will no longer hepzyme samples to neutralize heparin in submitted samples. If the Thrombin Time is >60 seconds, the Bethesda Assay will be canceled with the comment, “Specimen canceled; interfering substances detected. Correlation with medications recommended.” If this is the case, the ordering provider will be notified. |

**Specimen**
Specimen Type: Whole blood

Container: Light Blue top tube (Buffered Na Citrate 3.2%)

Draw Volume: Three 3 mL tubes, each containing 2.7 mL blood (8.1 mL). (Minimum volume: Two-3 mL tubes, each containing 2.7 mL blood (5.4 mL))

Processed Volume: Specimens will be processed at reference lab facility if received within 4 hours of collection. Otherwise, specimens need to be processed at referring facility and provide minimum of two 0.5 mL specimens frozen at -70. Follow directions below under Special Processing.

Collection: Routine venipuncture. Do Not use the first 2 mL’s of blood collected. For correct anticoagulant to blood ratio fill to fill line on tube.

If the patient’s hematocrit is >55%, contact laboratory to obtain a special tube. If the patient’s hematocrit is greater than 55%, contact laboratory to obtain a special tube. Mix thoroughly by gentle inversion.

If the patient has a coagulation abnormality, apply direct pressure tot the puncture site for 10 minutes; apply a pressure dressing. Instruct the patient to leave the bandage on for 12 hours.

Special Processing: Lab Staff: Do Not centrifuge. Do Not freeze. Send to reference lab in original Vacutainer® at room temperature if within 4 hours of collection. Forward promptly.

If specimen is >4 hours old prior to shipment, process specimen as follows:
Spin sample collected in blue top tube(s) for 5 minutes on the Stat Spin centrifuge, remove plasma and transfer to a 4 mL BCS sample cup(s), spin remaining plasma again for 5 minutes in the Stat Spin Centrifuge. Transfer plasma into two labeled 10x75 mL plastic tubes with a minimum of 0.5 mL in each. Freeze at -70 and send specimens on dry ice to Fairview University.

Patient Preparation: None

Sample Rejection: Patient on heparin or collection in a heparin containing tube; unprocessed specimens greater than 24 hours old or received frozen; clotted specimens; insufficient volume; mislabeled or unlabeled specimens

Interpretive

Reference Range: 0 Bethesda Units/mL (Beth U/mL)

Critical Values: N/A

Limitations: Recent Factor 8 infusion may invalidate results.
Methodology: Measurement of residual factor VIII on mixtures of patient plasma mixed with normal pooled plasma and incubated for 2 hours at 37ºC.

References: Fairview University Laboratory Web Page February 2014

Updates: 6/2/2004: Draw volume changed from three 5 mL tubes to three 3 mL tubes.
5/24/2010: Tubing of patient specimens is no longer prohibited.
2/24/2014: Specimen processing update.
6/4/2014: Fairview University will no longer hepzyme specimens.