Lab Dept: Coagulation

Test Name: ALPHA-2 ANTIPLASMIN CHROMOGENIC (FAIRIVEW UNIVERSITY)

General Information

Lab Order Codes: A2AC

Synonyms: Alpha 2 Antiplasmin Activity; Antiplasmin Functional Assay

CPT Codes: 85410 – Alpha-2 antiplasmin

Test Includes: Antiplasmin activity level reported as a %.

Logistics

Test Indications: Alpha-2 Antiplasmin is a specific inhibitor of Plasmin. A deficiency may result in a bleeding tendency. Homozygous deficiency may cause severe bleeding. Elevated levels may cause thrombosis.

Lab Testing Sections: Coagulation - Sendouts

Referred to: Fairview University Medical Center (Forward to ARUP, Fairview/Altas test: APCH)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours. Test is performed as needed.

Turnaround Time: Within 7 days

Special Instructions: Indicate when specimen is drawn from a line or a heparin lock. Deliver immediately to the laboratory.

Specimen

Specimen Type: Whole blood

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

Draw Volume: 2.7 mL blood in a 3 mL tube (Minimum: 1.8 mL in a 2 mL tube).
**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:** Do Not use the first 2 mL's of blood collected.

Patients with hematocrit levels of >55% must have a special tube made to adjust for the hematocrit, contact laboratory for special tube.

Fill tube completely. Mix thoroughly by gentle inversion.

If the patient has a coagulation abnormality, apply direct pressure to 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:** Improper tube; clotted samples; underfilled tubes; overfilled tubes; mislabeled or unlabeled specimens

**Interpretive**

**Reference Range:**

<table>
<thead>
<tr>
<th>Age</th>
<th>Range (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 4 days</td>
<td>55 – 115%</td>
</tr>
<tr>
<td>5 – 29 days</td>
<td>70 – 130%</td>
</tr>
<tr>
<td>30 – 89 days</td>
<td>76 – 124%</td>
</tr>
<tr>
<td>90 – 179 days</td>
<td>76 – 140%</td>
</tr>
<tr>
<td>180 – 364 days</td>
<td>83 – 139%</td>
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<tr>
<td>1 – 5 years</td>
<td>93 – 117%</td>
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<tr>
<td>Age Group</td>
<td>Value Range</td>
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<tr>
<td>--------------------</td>
<td>-------------</td>
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<tr>
<td>6 years</td>
<td>89 – 110%</td>
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<tr>
<td>7 – 9 years</td>
<td>88 – 147%</td>
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<tr>
<td>10 – 11 years</td>
<td>90 – 144%</td>
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<td>12 – 13 years</td>
<td>87 – 142%</td>
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<td>14 – 15 years</td>
<td>83 – 136%</td>
</tr>
<tr>
<td>16 – 17 years</td>
<td>77 – 134%</td>
</tr>
<tr>
<td>18 years and older</td>
<td>82 – 133%</td>
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</tbody>
</table>

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Chromogenic (synthetic substrate) activity assay

**References:**
- Fairview University Web Page February 2014

**Updates:**
- 5/25/2010: Tubing patient specimens is no longer prohibited.