Lab Dept: Chemistry

Test Name: PHENYLALANINE & TYROSINE, BLOOD

General Information

Lab Order Codes: PHTY

Synonyms: Phenylketonuria (PKU)

CPT Codes: 84510 – Tyrosine
84030 – Phenylalanine (PKU), blood

Test Includes: Phenylalanine and Tyrosine reported in mg/dL

Logistics

Test Indications: Useful in diagnosis of phenylketonuria (PKU) and to monitor phenylalanine and tyrosine levels in PKU patients on low phenylalanine diets.

Lab Testing Sections: Serology – Sendouts

Referred to: Fairview University Medical Center (Test code: TYPH)

Phone Numbers: MIN Lab: 612-813-6280
               STP Lab: 651-220-6500

Test Availability: Daily, 24 hours and performed on the following schedule at Fairview. All specimens will be processed and held to be run on these days: Mondays and Wednesdays, results are reported the following day.

Turnaround Time: 2 – 5 days

Special Instructions: N/A

Specimen

Specimen Type: Whole blood

Container: Green top (NaHep NO GEL) tube, Lavender top (EDTA) tube or Red top (NO GEL) or filter paper.

Draw Volume: 2 mL blood (Minimum: 0.3 mL) or blood absorbed onto filter paper.

Processed Volume: Same as Draw Volume
Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at room temperature. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

**Interpretive**

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Phenylalanine:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age:</td>
<td>Result (mg/dL):</td>
</tr>
<tr>
<td>0 – 3 months:</td>
<td>0.0 - 1.9 mg/dL</td>
</tr>
<tr>
<td>4 months – 11 years:</td>
<td>0.1 - 1.4 mg/dL</td>
</tr>
<tr>
<td>&gt; or = 12 years:</td>
<td>0.5 - 1.6 mg/dL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tyrosine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age:</td>
</tr>
<tr>
<td>0 – 3 months:</td>
</tr>
<tr>
<td>4 months – 11 years:</td>
</tr>
<tr>
<td>&gt; or = 12 years:</td>
</tr>
</tbody>
</table>

Critical Values: N/A

Limitations: N/A

Methodology: High performance ion exchange liquid chromatography.

References: [Fairview University Medical Center](http://example.com) April 2016