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**Lab Dept:** Chemistry

**Test Name:** PKU DIETARY SCREEN, QUANTITATIVE

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***General Information***

**Lab Order Codes:** PKUD

**Synonyms:** Amino Acids, Quantitative Dietary Screen

**CPT Codes:** 82139

**Test Includes:** Quantification of 5 Amino Acids and Interpretation of clinical significance.

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***Logistics***

**Test Indications:** Useful in diagnosis of amino acid metabolism defect, which could lead to disorders such as phenylketonuria (PKU), maple syrup urine disease (MSUD), homocystinuria, glycine encephalopathy, and various urea cycle defects.

**Lab Testing Sections:** Serology – Sendouts

**Referred to:** Wisconsin State Laboratory of Hygiene (WSLH code: 565)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6500

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 - 4 days after receipt of sample, same day if requested. Testing performed Monday - Friday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Whole blood spotted on filter paper

**Container:** Whatman 904 filter paper

**Draw Volume:** 0.4 mL or blood absorbed onto filter paper.

**Processed Volume:** Same as Draw Volume

<b>Collection:</b>	Routine venipuncture, 2 dime-sized dried blood spots collected on provided filter paper. Allow blood specimen to dry for at least 3 hours prior to transport.
<b>Special Processing:</b>	Lab Staff: Dry specimen at room temperature 3- 4 hours in horizontal position. Store and ship at room temperature. Forward to reference lab within 24 hours of collection.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens, blood clots, layered blood, incomplete saturation or insufficient specimen quantity

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### ***Interpretive***

<b>Reference Range:</b>	<b>Phenylalanine:</b> 37 – 73 umol/L <b>Tyrosine:</b> 51 – 115 umol/L
<b>Critical Values:</b>	N/A
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	High performance ion exchange liquid chromatography(HPLC)
<b>References:</b>	<a href="#">Wisconsin State Laboratory of Hygiene</a> (September 2017)