
Lab Dept: Chemistry

Test Name: PKU DIETARY SCREEN, QUANTITATIVE

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.

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

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

Collection:	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.
Special Processing:	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.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens, blood clots, layered blood, incomplete saturation or insufficient specimen quantity

Interpretive

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