
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: Blood

Container: Green top (Li Heparin) tube
Alternate: Green(NaHep or LiHep 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: 1 mL (Minimum: 0.05 mL) plasma/serum

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

Reference Range:

Phenylalanine:	
Age:	Result (mg/dL):
0 – 3 months:	0.0 - 1.9 mg/dL
4 months – 11 years:	0.1 - 1.4 mg/dL
> or = 12 years:	0.5 - 1.6 mg/dL
Tyrosine	
Age:	Result (mg/dL):
0 – 3 months:	0.0 - 2.7 mg/dL
4 months – 11 years:	0.4 - 1.6 mg/dL
> or = 12 years:	0.6 - 2.4 mg/dL

Critical Values:	N/A
Limitations:	N/A
Methodology:	High performance ion exchange liquid chromatography.
References:	Fairview University Medical Center December 2017