MAYO CLINIC
Mayo Medical Laboratories

Test Definition: PKU

Phenylalanine and Tyrosine, Plasma

Reporting Title: Phenylalanine and Tyrosine, P
Performing Location: Rochester

Specimen Requirements:

Collection Container/Tube:
Preferred: Green top (sodium heparin)
Acceptable: Lavender top (EDTA)
Submission Container/Tube: Plastic vial
Specimen Volume: 0.5 mL
Collection Instructions: Fasting (4 hours or more in infants)
Additional Information:
1. Patient's age is required.
2. Include family history, clinical condition (asymptomatic or acute episode), diet, and drug therapy information.
Forms: New York Clients-Informed consent is required. Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing (Supply T576) is available in Special Instructions.

Specimen Type	Temperature	Time
Plasma	Frozen (preferred)	14 days
	Refrigerated	14 days

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
8380	Phenylalanine, P	Numeric	nmol/mL	14875-9
8627	Tyrosine, P	Numeric	nmol/mL	20660-7

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	Tyrosine-Plasma	1	84510		
Billing only	Phenylalanine-Plasma	1	84030		

Reference Values:

PHENYLALANINE
Premature: 98-213 nmol/mL
0-31 days: 38-137 nmol/mL
1-24 months: 31-75 nmol/mL
2-18 years: 26-91 nmol/mL
> or =19 years: 35-85 nmol/mL

Conversion Formulas:
Result in mg/dL x 60.6=result in nmol/mL
Result in nmol/mL x 0.0165=result in mg/dL

TYROSINE
Premature: 147-420 nmol/mL
0-31 days: 55-147 nmol/mL
1-24 months: 22-108 nmol/mL
2-18 years: 24-115 nmol/mL
> or =19 years: 34-112 nmol/mL

Conversion Formulas:
Result in mg/dL x 55.6=result in nmol/mL
Result in nmol/mL x 0.0181=result in mg/dL
See Inborn Errors of Amino Acid Metabolism in Special Instructions.