

**Reporting Title:** Phenylalanine and Tyrosine, BS  
**Performing Location:** Rochester

**Ordering Guidance:**  
For follow-up of an abnormal newborn screen for potential phenylketonuria, order PKU / Phenylalanine and Tyrosine, Plasma.

**Necessary Information:**  
Patient's age is required.

**Specimen Requirements:**  
Submit only 1 of the following specimen types:

**Preferred:**  
**Specimen Type:** Blood spot  
**Supplies:** Card-Blood Spot Collection (Filter Paper) (T493)  
**Container/Tube:**  
**Preferred:** Blood Spot Collection Card  
**Acceptable:** Whatman Protein Saver 903 Paper, PerkinElmer 226 filter paper, Munktell filter paper, or blood collected in tubes containing EDTA and dried on filter paper.  
**Specimen Volume:** 2 Blood spots  
**Collection Instructions:**  
1. An alternative blood collection option for a patient older than 1 year is a fingerstick. For detailed instructions, see [How to Collect Dried Blood Spot Samples](#).  
3. Let blood dry on filter paper at room temperature in a horizontal position for a minimum of 3hours.  
4. Do not expose specimen to heat or direct sunlight.  
5. Do not stack wet specimens.  
6. Keep specimen dry.  
**Specimen Stability Information:** Ambient (preferred) 90 days/Refrigerated 90 days/Frozen 90 days  
**Additional Information:**  
1. For collection instructions, see [Blood Spot Collection Instructions](#)  
2. For collection instructions in Spanish, see [Blood Spot Collection Card-Spanish Instructions](#) (T777)  
3. For collection instructions in Chinese, see [Blood Spot Collection Card-Chinese Instructions](#) (T800)

**Acceptable:**  
**Specimen Type:** Whole blood  
**Container/Tube:** Lavender top (EDTA)  
**Specimen Volume:** 2 mL  
**Collection Instructions:** Send whole blood specimen in original tube. **Do not aliquot.**  
**Specimen Stability Information:** Refrigerate 6 days

**Forms:**  
[If not ordering electronically, complete, print, and send a Biochemical Genetics Test Request](#) (T798) with the specimen.

Specimen Type	Temperature	Time	Special Container
Whole blood	Varies		

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
92405	Phenylalanine, BS	Numeric	nmol/mL	29573-3
92406	Tyrosine, BS	Numeric	nmol/mL	35571-9
92407	Reviewed By	Alphanumeric		18771-6

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

- 84030
- 84510
- 82542 (if appropriate for government payers)

Reference Values:

PHENYLALANINE  
27-107 nmol/mL

TYROSINE  
<4 weeks: 40-280 nmol/mL  
> or =4 weeks: 25-150 nmol/mL