Amino Acid Profile, Quantitative, Urine

**Test Code**: UA  
**Turnaround time**: 7 days  
**CPT Codes**: 82139 x1, 82570 x1

---

### Condition Description

Urine amino acids analysis will detect specific amino acid disorders such as phenylketonuria (PKU), maple syrup urine disease (MSUD), urea cycle defects, non-ketotic hyperglycinemia and homocystinuria. Urine amino acids analysis can evaluate renal function, some specific amino acid disorders, and renal transport disorders. Urine amino acid values are compared to age-matched normal values.

### Indications

This test is indicated in the use of:

- Infants with a positive newborn screening result indicative of a metabolic disorder.
- Evaluation of patients with signs of a possible metabolic condition, such as lethargy, vomiting, and failure to thrive.
- Monitoring for individuals diagnosed with a metabolic condition.

### Methodology

Quantitative ion exchange chromatography, reported as nm/mg creatinine.

### Detection

This test is very sensitive for specific amino acid disorders, but detection can be sensitive to the clinical and nutritional status of the patient.

### Reference Range

Call lab for reference ranges if needed.

### Specimen Requirements

**Submit only 1 of the following specimen types**

**Type**: Urine

**Specimen Requirements**:
- Clean container without additives
- 1-5 ml ml
- Freeze sample. Fasting or first void sample is preferable.

**Specimen Collection and Shipping**:
- Ship frozen sample on dry ice with overnight delivery.

### Special Instructions

Please indicate any medications or dietary changes on the test requisition form.

### Related Tests

- [Organic Acids Quantitative Analysis (OA)](#) is used in the diagnosis and evaluation of patients with metabolic conditions.