# 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

**Type:** Urine

Specimen Requirements:

- In a clean container without preservatives: 5 ml. Freeze.
- 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)](Organic Acids Quantitative Analysis (OA)) is used in the diagnosis and evaluation of patients with metabolic conditions.