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)](link) is used in the diagnosis and evaluation of patients with metabolic conditions.