



# Laboratory Service Manual

**Lab Dept:** Chemistry

**Test Name:** AMINO ACIDS, QUALITATIVE, URINE

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## ***General Information***

**Lab Order Codes:** AAQL

**Synonyms:** Amino acid screen

**CPT Codes:** 82128 – Amino acids; multiple, qualitative, each specimen

**Test Includes:** Screen for amino acid abnormalities.

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## ***Logistics***

**Test Indications:** Diagnosing inborn errors of amino acid metabolism.

Amino acid analysis may also be useful in the evaluation of several acquired conditions including endocrine, liver, muscle, neoplastic, and neurological diseases; nutritional disturbances; renal failure and burns.

**Lab Testing Sections:** Chemistry – Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test# 8400)

### **Phone Numbers:**

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 3 – 5 days, test performed Monday - Friday

**Special Instructions:** Include family history, clinical condition (asymptomatic or acute episode), diet, and drug therapy information.

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## ***Specimen***

**Specimen Type:** Urine, random

**Container:** Urine container

**Draw Volume:** 1.0 mL (Minimum: 0.5 mL) random urine



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<b>Processed Volume:</b>	Same as Draw Volume
<b>Collection:</b>	Routine random urine collection
<b>Special Processing:</b>	Lab Staff: Remove aliquot from urine collection and place it into a 13 mL urine tube. Freeze immediately. Store and ship at frozen temperatures.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Warm specimens

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## ***Interpretive***

<b>Reference Range:</b>	An interpretive report will be provided.
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	<p>Improper handling of specimens can result in artifactual changes in the amino acid contents.</p> <p>Drugs (eg, ampicilin, drug metabolites) and other exogenous compounds are often detected by amino acid analysis. Methods based solely on chromatographic techniques do not allow a positive identification of these compounds or a conclusive interpretation of their clinical significance, if any.</p>
<b>Methodology:</b>	High-pressure liquid chromatography (HPLC)
<b>Contraindications:</b>	N/A
<b>References:</b>	Mayo Medical Laboratory Web Page <a href="http://www.mayoreferenceservices.org/mrs/mml/index.asp">http://www.mayoreferenceservices.org/mrs/mml/index.asp</a> February 2006