

**Reporting Title:** Amino Acid, MSUD Panel, P  
**Performing Location:** Rochester

**Necessary Information:**

- 1. Patient's age is required.
- 2. Include family history, clinical condition (asymptomatic or acute episode), diet, and drug therapy information.

**Specimen Requirements:**

**Patient Preparation:** Fasting (overnight preferred, 4 hours minimum). Infants should be drawn just before next feeding (2-3 hours without total parenteral nutrition: TPN if possible).

**Collection Container/Tube:**

- Preferred:** Green top (sodium heparin)  
**Acceptable:** Lavender top (EDTA), plasma gel tube, or green top (lithium heparin)  
**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 0.5 mL

**Collection Instructions:**

- 1. Collect specimen and place on wet ice. Note: Thrombin-activated tubes should not be used for collection.
- 2. Centrifuge immediately or within 4 hours of collection if specimen is kept at refrigerated temperature.
- 3. Being careful to ensure that no buffy coat is transferred, aliquot plasma into a plastic vial and freeze.

**Forms:**

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

Specimen Type	Temperature	Time	Special Container
Plasma	Frozen	14 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
32446	Valine	Numeric	nmol/mL	94567-5
32447	Isoleucine	Numeric	nmol/mL	94568-3
32448	Leucine	Numeric	nmol/mL	94569-1
32449	Allo-isoleucine	Numeric	nmol/mL	94570-9
32450	Interpretation (AAMSD)	Alphanumeric		49247-0

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

**Supplemental Report:**

No

**CPT Code Information:**

82136

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**Reference Values:****ISOLEUCINE**

&lt; or =23 months: 31-105 nmol/mL

2-17 years: 30-111 nmol/mL

&gt; or =18 years: 36-107 nmol/mL

**LEUCINE**

&lt; or =23 months: 48-175 nmol/mL

2-17 years: 51-196 nmol/mL

&gt; or =18 years: 68-183 nmol/mL

**VALINE**

&lt; or =23 months: 83-300 nmol/mL

2-17 years: 106-320 nmol/mL

&gt; or =18 years: 136-309 nmol/mL

**ALLO-ISOLEUCINE**

&lt; or =23 months: &lt;2 nmol/mL

2-17 years: &lt;3 nmol/mL

&gt; or =18 years: &lt;5 nmol/mL