

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.

Specimen Minimum Volume:

0.3 mL

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

Result ID	Reporting Name	Type	Unit	LOINC®
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

Reference Values:**ISOLEUCINE**

< or =23 months: 31-105 nmol/mL

2-17 years: 30-111 nmol/mL

> or =18 years: 36-107 nmol/mL

LEUCINE

< or =23 months: 48-175 nmol/mL

2-17 years: 51-196 nmol/mL

> or =18 years: 68-183 nmol/mL

VALINE

< or =23 months: 83-300 nmol/mL

2-17 years: 106-320 nmol/mL

> or =18 years: 136-309 nmol/mL

ALLO-ISOLEUCINE

< or =23 months: <2 nmol/mL

2-17 years: <3 nmol/mL

> or =18 years: <5 nmol/mL