



Test Definition: AAMSD

Amino Acids, Maple Syrup Urine Disease Panel, Plasma

Reporting Title: Amino Acid, MSUD Panel, P

Performing Location: Mayo Clinic Laboratories - Rochester Main Campus

Ordering Guidance:

Body fluids are not acceptable specimens for this test.

For testing urine specimens, order AAPD / Amino Acids, Quantitative, Random, Urine.

For testing spinal fluid specimens, order AACSF / Amino Acids, Quantitative, Spinal Fluid.

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: 4 hours, required; infants should have specimen collected before next feeding (2-3 hours without total parenteral nutrition if possible)

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Collection Container/Tube: Green top (sodium 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

Reference Values:

Isoleucine

<24 months: 23-149 nmol/mL

2-17 years: 26-150 nmol/mL

> or =18 years: 29-153 nmol/mL

Leucine

<24 months: 59-213 nmol/mL

2-17 years: 51-216 nmol/mL

> or =18 years: 79-217 nmol/mL

Valine

<24 months: 94-382 nmol/mL

2-17 years: 111-367 nmol/mL

> or =18 years: 134-357 nmol/mL

Allo-isoleucine

<5 nmol/mL