

## Amino Acids, Maple Syrup Urine Disease Panel, Plasma

**Test ID:** AAMSD

**Explanation:** On the effective date, the Collection Container and Reference Values will be updated.

### Current Specimen Required

**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.

### New Specimen Required

**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)

**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.

### Current 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

### New 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

## Questions

Contact Melissa Tricker-Klar, Laboratory Resource Coordinator at 800-533-1710.