

Amino Acids, Urea Cycle Disorders Panel, Plasma

Test ID: AAUCD

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

GLUTAMINE

< or =23 months: 316-1020 nmol/mL
2-17 years: 329-976 nmol/mL
> or =18 years: 371-957 nmol/mL

ORNITHINE

< or =23 months: 20-130 nmol/mL
2-17 years: 22-97 nmol/mL
> or =18 years: 38-130 nmol/mL

CITRULLINE

< or =23 months: 9-38 nmol/mL
2-17 years: 11-45 nmol/mL
> or =18 years: 17-46 nmol/mL

ARGININE

< or =23 months: 29-134 nmol/mL
2-17 years: 31-132 nmol/mL
> or =18 years: 32-120 nmol/mL

ARGININOSUCCINIC ACID

<2 nmol/mL

Reference value applies to all ages.

New Reference Values

GLUTAMINE

< 24 months: 356-857 nmol/mL
2-17 years: 353-790 nmol/mL
> or =18 years: 447-774 nmol/mL

ORNITHINE

< 24 months: 32-171 nmol/mL
2-17 years: 32-148 nmol/mL
> or =18 years: 39-154 nmol/mL

CITRULLINE

< 24 months: 8-42 nmol/mL
2-17 years: 12-44 nmol/mL
> or =18 years: 18-57 nmol/mL

ARGININE

< 24 months: 28-164 nmol/mL
2-17 years: 28-156 nmol/mL
> or =18 years: 45-144 nmol/mL

ARGININOSUCCINIC ACID

<5 nmol/mL

Reference value applies to all ages.

Questions

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