
Lab Dept: Urine/Stool

Test Name: AMINO ACIDS, QUANTITATIVE RANDOM, URINE

General Information

Lab Order Codes: AAUQR

Synonyms: N/A

CPT Codes: 82139 – Amino acids; 6 or more, quantitative, each specimen

Test Includes: Alanine, Allo-Isoleucine, α -Aminoadipic Acid, α -Amino-n-butyric Acid, Arginine, Argininosuccinic Acid, Asparagine, Aspartic Acid, β -Alanine, β -Aminoisobutyric Acid, Anserine, Carnosine, Citrulline, Cystathionine, Cystine, Ethanolamine, Gamma-Amino-n-butyric Acid, Glutamic Acid, Glutamine, Glycine, Histidine, Homocitrulline, Hydroxylysine, Hydroxyproline, Isoleucine, Leucine, Lysine, Methionine, 1-Methylhistidine, 3-Methylhistidine, Ornithine, Phenylalanine, Phosphethanolamine, Phosphoserine, Proline, Sarcosine, Serine, Taurine, Threonine, Tryptophan, Tyrosine, Valine reported in nmol/mg creatinine.

Logistics

Test Indications: Inborn errors of amino acid metabolism can manifest themselves at anytime in a person's life, but most become evident in infancy and early childhood.

Affected persons may have failure to thrive, neurological symptoms, digestive problems, locomotor retardation, and a wide spectrum of laboratory findings.

If not diagnosed promptly and treated properly, these disorders can result in poor growth, mental retardation, and death.

Amino acid analysis may also have clinical importance in the evaluation of several acquired conditions, including endocrine disorders, liver diseases, muscle diseases, neoplastic diseases, neurological disorders, nutritional disturbances, renal failure, and burns.

Lab Testing Sections: Urine/Stool - Sendouts

Referred to: Mayo Medical Laboratories (Test: AAPD)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 – 4 days, test set up Monday – Friday

Special Instructions: **Note:** Provide clinical history, clinical condition (asymptomatic or acute), diet, and drug therapy.

Specimen

Specimen Type: Random urine

Container: 13 mL urine tube, screw-capped

Draw Volume: 2 mL (Minimum: 1 mL) urine

Processed Volume: Same as Draw Volume

Collection: Random urine collection, void or catheterized

Special Processing: Lab Staff: A well mixed aliquot should be placed into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Warm specimens; mislabeled or unlabeled specimens

Interpretive

Reference Range: Reference ranges are provided with the report

Critical Values: N/A

Limitations: N/A

Methodology: Liquid chromatography-tandem Mass Spectrometry (LC-MS/MS)

References: [Mayo Medical Laboratories](#) October 2012

Updates: 3/1/2004: Test moved from Fairview Diagnostic Laboratories to Mayo Medical Laboratories.
1/11/2011: Method update. Units update.
10/31/2012: Addition of the following: Phosphoserine, Phosphoethanolamine, Hydroxyproline, Aspartic Acid, Ethanolamine, Sarcosine, Arginosuccinic Acid, Anserine, Homocitrulline, Gamma Amino-n-butyrlic Acid, Hydroxylysine, Tryptophan, Allo-isoleucine