Laboratory Service Manual

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, β-Alanine, β-Aminoisobutyric Acid, Carnosine, Citrulline, Cystathionine, Cystine, Glutamic Acid, Glutamine, Glycine, Homocitrulline, Isoleucine, Leucine, Lysine, Methionine, 1-Methylhistidine, 3-Methylhistidine, Ornithine, Phenylalanine, Proline, Serine, Taurine, Threonine, 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# 60475)

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

Test Availability: Daily, 24 hours

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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:	See the following link for a complete list of reference values. http://www.mayoreferenceservices.org/it-mmfiles/InbornErrors0208.pdf
Critical Values:	N/A
Limitations:	N/A
Methodology:	Liquid chromatography-tandem Mass Spectrometry (LC-MS/MS)
References:	Mayo Medical Laboratories January 2011
Updates:	3/1/2004: Test moved from Fairview Diagnostic Laboratories to Mayo Medical Laboratories. 1/11/2011: Method update. Units update.

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