
Lab Dept: Urine/Stool

Test Name: CYSTINURIA PROFILE, QUANTITATIVE 24 HR URINE

General Information

Lab Order Codes: UCYQ

Synonyms: Cystine, Quantitative urine

CPT Codes: 82136 – Amino acids, 2 to 5 amino acids, quantitative, each

Test Includes: Cystine, Lysine, Ornithine, Arginine reported in mcmol/24 h.

Logistics

Test Indications: Biochemical diagnosis and monitoring of cystinuria. Cystinuria is a disorder of the transport (intestine, kidney tubules) of four amino acids: cystine, lysine, arginine, and ornithine.

Lab Testing Sections: Urine/Stool – Sendouts

Referred to: Mayo Clinic Laboratories (MML Test: CYSQN)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 - 5 days, test set up Monday - Friday

Special Instructions: Collect before intravenous pyelogram.
Refrigerate or keep specimen on ice during the entire collection.
Note: Starting and ending times are required for a timed urine collection.

Specimen

Specimen Type: Urine, 24 hour

Container: Plastic leakproof container, 24 hour

Draw Volume: 5 mL (Minimum: 1 mL) urine from a 24 hour urine collection

Processed Volume: Same as Draw Volume

Collection: 24 hour collection (required). **Refrigerate or keep specimen on ice during the entire collection.**

Special Processing: Lab Staff: Mix 24 hour collection well. Measure 24 hour volume and note volume and collection duration on specimen label. Remove a 5 mL aliquot into a 13 mL urine tube. Send specimen frozen. Forward promptly.

If the 24-hr urine collection is refrigerated throughout collection, a preservative does not need to be added prior to collection.

Specimen is stable for 70 days frozen and 14 days refrigerated.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

Interpretive information will be provided with the report. See Mayo's test catalog for more details.

Conversion formulas:

$\text{mcmol/24 hours} \times 0.24 = \text{result in mg/24 hours}$

$\text{mg/24 hours} \times 4.17 = \text{result in mcmol/24 hours}$

Critical Values: N/A

Limitations: N/A

Methodology: Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS)

References: [Mayo Clinic Laboratories](#) June 2024

Updates: 6/28/2024: Omitted outdated reference ranges, added guidance to see interpretation on report or reference lab's catalog.