Lab Dept: Urine/Stool

Test Name: URIC ACID, 24 HOUR URINE

General Information

Lab Order Codes: UUAQ

Synonyms: Uric Acid, Urine, Timed

CPT Codes: 84560 – Uric acid, other source

81050 – Volume measurement for timed specimen

Test Includes: Urine uric acid concentrations in mg/dL and mg/24h.

Logistics

Test Indications: • Elevated uric acid levels suggest that the body is not properly

metabolizing the breakdown of purines. The practitioner will need to investigate the over-production of uric acid or whether the patient is unable to clear the uric acid due to kidney malfunction. Quantitation of urinary uric acid excretion is an aid in selecting treatment for

asymptomatic hyperuricemia.

• Assessment and management of patients with kidney stones,

particularly uric acid stones.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Clinic Laboratories (Mayo test: URCU)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1-2 days

Special Instructions: Submit an entire 24-hour urine collection. No preservative. Refrigerate

specimen during and after collection.

Note: Starting and ending times of collection are required for a timed urine collection and must be documented electronically or on the proper

request form.

Specimen

Specimen Type: Urine, 24 hour collection

Note: A 24 hour collection is required.

Container: Plastic leakproof container (No preservative). Urine GUARD® collection

container is preferred for a timed urine sample.

Draw Volume: Submit an entire 24-hour urine collection

Processed Volume: 5 mL (Minimum: 1 mL) urine from a well-mixed 24 hour collection

Collection: For timed urine collections, empty the bladder, discard the voided

sample, and note the start time. Collect all urine voided for the specified time period. At the end of the period, note the finishing time, add the last voided sample to the container by emptying the bladder. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical

record number and date of birth.

Special Processing: Lab Staff: Measure total volume of specimen submitted and record

during specimen decant. Order code PVSO to record the Urine Volume

and Collection Duration as 24. Store and ship refrigerated.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens; collections <24 hours

Interpretive

Reference Range: ≥16 years: Diet-dependent: <750 mg/24 hours

Interpretation: Urinary uric acid excretion is elevated in a significant proportion of patients with uric acid stones. Uric acid excretion can be either decreased or increased in response to a variety of pharmacologic

agents. Urine uric acid levels are elevated in states of uric acid

overproduction such as in leukemia and polycythemia and after intake

of food rich in nucleoproteins.

Critical Values: N/A

Limitations: High levels of bilirubin and ascorbic acid may interfere with

measurement.

Methodology: Uricase

References: Mayo Clinic Laboratories October 2020

Updates: 10/12/2020: Testing moved from in-house to Mayo.