Lab Dept: Urine/Stool

Test Name: UREA NITROGEN, 24 HOUR URINE

General Information

Lab Order Codes: UUNQ

Synonyms: BUN, Urine; Urea Nitrogen, 24 hour urine

CPT Codes: 84540 – Urea nitrogen; urine

81050 - Volume measurement for timed specimen

Test Includes: Urea nitrogen concentration in mg/dL and g/collection

Logistics

Test Indications:• The urea nitrogen level, along with creatinine, is used to evaluate

kidney function. It is used to monitor patients with kidney failure or those

receiving dialysis therapy.

Assessment of protein intake and/or nitrogen balance.

Lab Testing Sections: Chemistry - Sendouts

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

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

A 24 hour collection is required.

Container: Plastic leak-proof 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: 4 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; collection <24 hours

Interpretive

Reference Range: 10 - 35 g/24 hours

Interpretation: Because multiple factors (glomerular filtration rate, dietary protein intake, protein catabolic rate, hydration state, etc) can independently affect the urinary excretion of urea, all of these factors

must be taken into account when interpreting the results.

Critical Values: N/A

Limitations: N/A

Methodology: Kinetic UV Assay

References: <u>Mayo Clinic Laboratory</u> October 2020