
Lab Dept: Urine/Stool

Test Name: UREA NITROGEN, RANDOM URINE

General Information

Lab Order Codes: URNR

Synonyms: BUN, Random Urine

CPT Codes: 84540 – Urea nitrogen; urine

Test Includes: Urea nitrogen concentration in mg/dL.

Logistics

Test Indications: The urea nitrogen level, along with creatinine, is used to evaluate kidney function, and used to monitor patients with kidney failure or those receiving dialysis therapy.

Lab Testing Sections: Chemistry - Sendouts

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

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 2 days

Special Instructions: N/A

Specimen

Specimen Type: Urine, random collection (No preservative)

Container: Plastic leakproof container (No preservative)

Draw Volume: 1 - 4 mL from a random urine collection

Processed Volume: 1 – 4 mL (Minimum: 1 mL) urine

Collection:	A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. 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:	N/A
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range:	No established reference values Random urine urea may be interpreted in conjunction with serum urea, using both values to calculate fractional excretion of urea. The calculation for fractional excretion (FE) of urea (U) is: $FE(U) = \frac{[U(urine) \times Creat(serum)]}{[U(serum) \times Creat(urine)]} \times 100$
Critical Values:	N/A
Limitations:	N/A
Methodology:	Kinetic Ultraviolet Assay
References:	Mayo Clinic Laboratories April 2021
Updates:	10/20/20: Testing moved from an inhouse test to Mayo. 4/29/21: Ratio removed by Mayo.