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**Lab Dept:** Urine/Stool

**Test Name:** UREA NITROGEN, TIMED URINE

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***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

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***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.

**Lab Testing Sections:** Chemistry

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 day

**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.

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***Specimen***

**Specimen Type:** Urine, timed collection

**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

<b>Processed Volume:</b>	Minimum: 0.5 mL urine
<b>Collection:</b>	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.
<b>Special Processing:</b>	N/A
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens

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### ***Interpretive***

<b>Reference Range:</b>	7 - 20 g/collection  <b>Note:</b> The reference value is for a 24 hour collection. Specimens collected for other than a 24 hour time period have no reference values established.
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Urease/Glutamate Dehydrogenase Enzymatic BUN Flex™ reagent cartridge insert sheet, Siemens Healthcare Diagnostics Inc, 2008-03-04 L 717021.001 - US
<b>References:</b>	Clinical Significance, Siemens Healthcare Diagnostics Inc, Newark, Delaware 19714 Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5 <sup>th</sup> Edition, 2001 Biorad Liquichek Unassayed Chemistry Control Product Insert (October 2005) Bio-Rad Laboratories, Irvine, CA 92618 Biorad Liquichek Urine Chemistry Control Product Insert (June 2005) Bio-Rad Laboratories, Irvine, CA 92618 06/2005