
Lab Dept **Chemistry**

Test Name: **BUN (UREA NITROGEN)**

General Information

Lab Order Codes: BUN

Synonyms: BUN, Blood Urea Nitrogen; Urea Nitrogen

CPT Codes: 84520 – Urea nitrogen; quantitative

Test Includes: Urea Nitrogen concentration in mg/dL

Logistics

Test Indications: BUN levels, usually analyzed with creatinine, are used to evaluate kidney function, evaluate hydration/dehydration status and 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: 4 hours

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: **Preferred:** Green top (Li Heparin) tube
Alternate: Red, marble or gold top tube, Green (NaHep) tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL plasma/serum

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen, remove plasma/serum aliquot into plastic sample cup. Analyze sample immediately or store at refrigerated temperatures.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range:

| Reference ranges by Method: | | |
|------------------------------------|----------------------|------------------|
| Method Abbott | 0 – 14 days | 2.8 – 23.0 mg/dL |
| Method Abbott | 15 – 364 days | 3.4 – 16.8 mg/dL |
| Method Abbott | 1 – 9 years | 9.0 – 22.1 mg/dL |
| Method Abbott | 10 – 18 years | 7.3 – 19.0 mg/dL |
| Method Abbott | 19 – 49 years Female | 7.0 – 18.7 mg/dL |
| Method Abbott | 19 – 49 years Male | 8.9 – 20.6 mg/dL |
| Method Abbott | >50 years Female | 9.8 – 20.1 mg/dL |
| Method Abbott | >50 years Male | 8.4 – 25.7 mg/dL |

Critical Values: N/A

Limitations: N/A

Methodology: ABBOTT: Urease

References: Biorad Liquichek Urine Chemistry Control Product Insert (6/2005) Bio-Rad Laboratories, Irvine, CA 92618

Architect Urea Pkg Insert, Abbott Laboratories Diagnostic Division, Abbott Park, IL 60064, February 2018

Alinity Urea Pkg Insert, Abbot Laboratories, Diagnostic Division, Abbott Park, IL 60064, December 2017

Clinical Significance, Siemens Healthcare Diagnostics Inc, Newark, Delaware 19714

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition, 2001

Biorad Liquichek Unassayed Chemistry Control Product Insert (10/2005) Bio-Rad Laboratories, Irvine, CA 92618

Updates:

2/8/2016: Update alt tube types

10/18/2019: New backup instrumentation and related reference ranges

11/9/2020: Retired method VISTA, updated for method Alinity, container update