
Lab Dept: Chemistry

Test Name: COMPREHENSIVE METABOLIC PANEL

General Information

Lab Order Codes: PR12

Synonyms: CMP; SMA12

CPT Codes: 80053 – Comprehensive metabolic panel

Test Includes: Albumin in g/dL; Bilirubin, Total in mg/dL; Calcium in mg/dL; Carbon Dioxide in meq/L; Chloride in mEq/L; Creatinine in mg/dL; Glucose in mg/dL; Phosphatase, Alkaline in U/L; Potassium in mEq/L; Protein, Total on g/dL; Sodium in mEq/L; Transferase, alanine amino (ALT/SGPT) in U/L; Transferase, aspartate amino (AST/SGOT) in U/L; Urea Nitrogen (BUN) in mg/dL; Anion Gap. See individual test listings for more specific information.

Logistics

Test Indications: The Comprehensive Metabolic Panel may be used as a broad screening tool for diabetes, liver disease and kidney disease.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 hour

Special Instructions: Avoid prolonged contact with red cells. See [Collection](#).

Specimen

Specimen Type: Blood

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

Draw Volume: 2.7 ml (Minimum: 1.5 mL) blood
Note: A completely filled 3 mL vacutainer is the **preferred** specimen.

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| Processed Volume: | 0.35 mL plasma/serum |
| Collection: | Collect sample anaerobically or minimize exposure to air for TCO ₂ . |
| Special Processing: | Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Analyze within 2 hours, or protect from light. Once the sample is opened (uncapped), the sample must be processed within 1 hour for TCO ₂ . |
| Patient Preparation: | None |
| Sample Rejection: | Mislabeled or unlabeled specimens |

Interpretive

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| Reference Range: | See individual test listing |
| Critical Values: | See individual test listing |
| Limitations: | N/A |
| Methodology: | See individual test listing |
| References: | See individual test listing |
| Update: | 8/28/2005: No longer reporting BUN/Creat Ratio. 2/9/2016: Update alt tube type 9/13/2016: Protect from light update, specimen storage. |