
Lab Dept: Chemistry

Test Name: GLUCOSE, PUMP

General Information

Lab Order Codes: GLUCP

Synonyms: Blood Sugar, Pump

CPT Codes: 82947 – Glucose; quantitative, blood

Test Includes: Glucose concentration reported in mg/dL.

Logistics

Test Indications: Useful for determining the glucose of the pump prime solution prior to certain procedures such as ECMO or heart surgery.

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: N/A

Specimen

Specimen Type: Whole blood, pump

Container: Heparin blood gas syringe

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL blood

Collection: The specimen is collected from the ECMO pump.

Draw in an electrolyte-balanced heparin blood gas syringe. Immediately remove all air from syringe, remove needle, cap tightly, and mix. Send specimen in original tube. Forward promptly at ambient temperature only. Do not expose the specimen to air.

Special Processing: Lab Staff: **Do not** centrifuge. Specimen should be delivered to blood gas workstation for analysis.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen; clotted specimen

Interpretive

Reference Range: Reference ranges have not been established for pump samples.

Critical Values: All ages: <50 or >300 mg/dL

Limitations: Glucose concentrations are decreased by excess hemolysis, excess bilirubin and excess lipemia.

Methodology: Ion-Selective Electrode (ISE) by IRMA or Radiometer 825

Contraindications: This test is not indicated for general patient assessment.

References: Tietz (1999) Textbook of Clinical Chemistry, 3rd edition, Philadelphia, WB Saunders Co, p 750

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Updates: 8/19/2009: TAT previously listed as 2 hours.