
Lab Dept: Chemistry

Test Name: SODIUM, PUMP

General Information

Lab Order Codes: NAP

Synonyms: Na, Pump

CPT Codes: 84295 – Sodium; serum, whole blood or plasma

Test Includes: Sodium concentration measured in mEq/L.

Logistics

Test Indications: Useful for determining the sodium level 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: 30 minutes

Special Instructions: [See Collection](#)

Specimen

Specimen Type: Whole blood, pump

Container: Heparin blood gas syringe

Draw Volume: 0.4 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

Interpretive

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

Critical Values: N/A

Limitations:

- Benzylkonium salts present in some blood catheters will cause falsely increased results.
- Thiopental increases sodium results by 8 mEq/L at a concentration of 14 mg/dL.

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

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

References: ABL 800 FLEX Operator's Manual from software version 6.14 201410
ABL90 FLEX Operator's Manual from software version 3.1xx 201403

Updates: 8/13/2009: Turnaround time previously listed as 2 hours.
8/13/2012: Critical value removed.
6/11/2018: Updated references