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**Lab Dept:** Chemistry

**Test Name:** SODIUM, PUMP

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***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.

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***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](#)

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***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

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### ***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