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 form 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:**
- Benzykonium 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