
Lab Dept: Chemistry

Test Name: IONIZED CALCIUM, PUMP

General Information

Lab Order Codes: PICA

Synonyms: Calcium, Ionized, Blood, ICa

CPT Codes: 82330 – Calcium; ionized

Test Includes: Ionized calcium reported in mEq/L.

Logistics

Test Indications: Useful for determining the ionized calcium 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: For use by ECMO/heart surgery only. Specimen may be tested at the bedside by POCT, or forward promptly to the lab at ambient temperature.

Specimen

Specimen Type: Whole blood

Container: **Preferred:** Sims Portex® syringe (PB151) or Smooth-E syringe (956-463)

Draw Volume: 0.4 mL blood

Processed Volume: 0.2 mL blood

Collection:	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 and analyzed within 2 hours of collection.
Patient Preparation:	None
Sample Rejection:	Clotted specimen; mislabeled or unlabeled specimens; sample containing air; specimens older than 2 hours

Interpretive

Reference Range:	Undetermined
Critical Values:	N/A
Limitations:	N/A
Methodology:	Ion-Selective Electrode (ISE)
Contraindications:	This test is not indicated for evaluation of patient ionized calcium.
References:	Children's Hospitals and Clinics, October, 2004
Updates:	10/13/2014: Stability on ice changed from 30 minutes to 2 hours.