
Lab Dept: Chemistry

Test Name: LACTATE, PUMP

General Information

Lab Order Codes: LACTP

Synonyms: Lactic acid, Pump

CPT Codes: 83605 – Lactate (lactic acid)

Test Includes: Lactate, Pump concentration reported mg/dL.

Logistics

Test Indications: Useful for determining the lactate 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, [See Collection](#)

Container: Arterial/Venous draws: Sims Portex® syringe (PB151) or Smooth-E syringe (956-463) are the preferred syringes for analysis

Draw Volume: 0.4 mL (Minimum: 0.2 mL) blood

Processed Volume: 0.2 mL whole blood

Collection: The specimen is collected from the ECMO pump.

Immediately remove all air from the syringe, cap tightly and mix by gentle inversion, and place in an ice slurry. Deliver specimens immediately to the lab. Specimens must be analyzed immediately in the laboratory. Specimen should be tested with 15 minutes of collection.

Special Processing:	Lab Staff: Analyze all lactate samples immediately . Do Not centrifuge. Specimen should be delivered to testing station on ice in original collection container. Lab staff responsible for testing should be notified immediately.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen; clotted specimen; delay in specimen testing more than 30 minutes after collection

Interpretive

Reference Range:	Reference ranges have not been established for pump samples
Critical Values:	N/A
Limitations:	N/A
Methodology:	Ion Selective Electrode (ISE)
Contraindications:	This test is not indicated for general patient assessment.
References:	Tietz (1999) Textbook of Clinical Chemistry, 3 rd edition, Philadelphia, WB Saunders Co, pp 788-789 ABL 800 Flex Operators Manual (2008), Edition H, Publication 200802, Code Number 990-315, Radiometer Medical Applications Children's Hospitals and Clinics, May 2009
Updates:	5/26/2015: Specimens must be immediately placed on ice at the point of collection.