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, <u>See Collection</u>

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, 3rd edition, Philadelphia,

WB Saunders Co, pp 788-789

ABL90 Flex Operators Manual (2014), Edition E, Publication 201410,

Code Number 994-909, Radiometer Medical Applications

Updates: 5/26/2015: Specimens must be immediately placed on ice at the point

of collection.

6/11/2018: Updated references