

TEST CHANGE

Calcium, Ionized, Serum

0020135, IONCA-S

Specimen Requirements:

Patient Preparation:

Collect: Serum separator tube.

Specimen Preparation: Do not open the tube or split the specimen. Do not freeze separator tube. Do not expose specimen to air at any time during collection or transport process. Centrifuge with stopper in place within one hour of collection. Transport 5 mL serum in original serum separator tube. (Min: 0.5 mL)

Transport Temperature: Refrigerated. Ship upright in original serum separator collection tube and transport in the ARUP shipping rack. Do not ship on dry ice.

Unacceptable Conditions: Plasma and samples exposed to air in aliquot tubes. Frozen specimens.

Remarks:

Stability: Ambient: 24 hours; Refrigerated: 1 week; Frozen: Unacceptable

Methodology: Ion-Selective Electrode/pH Electrode

Performed: Sun-Sat

Reported: Within 24 hours

Note: Differences between the ionized calcium result and the ionized calcium normalized to pH 7.4 are due to the sample having a pH significantly different from pH 7.4. Specimen pH may be artificially decreased due to delayed processing and may be increased when the specimen is exposed to air. Due to these factors, it is recommended that the ionized calcium normalized to pH 7.4 be interpreted with caution and only used when the clinician has knowledge of the patient's acid/base status. Accurate determination of in vivo pH is best determined by arterial blood gas testing.

CPT Codes: 82330

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

Reference Interval:

Ionized calcium (ISE):

~~Birth up to 1 month: 1.10-1.35 mmol/L~~

~~1 month-adult: 1.11-1.30 mmol/L~~

Ionized calcium (calculation at pH 7.4):

1.09

~~Birth up to 1 month: 1.10-1.35 mmol/L~~

~~1 month-adult: 1.11-1.30 mmol/L~~