

LAB107 Osmolality, Serum (Measured)

BMC

Performing Location(s)

BMC

Specimen Type

Serum or Plasma

Preferred Container

Gold or Red top tube

Alternate Container

Green top tube

Minimum Volume to Submit for Testing

1.0 mL Serum or Plasma

Multiple test can be performed from this volume.

For question please contact the lab at 547-3975.

Storage Requirements

Sample tubes should be centrifuged within 2 hour of collection followed by transfer of the serum (red or gold top) or plasma (green top) to a labeled plastic, aliquot tube.

See Causes of Rejection for temperature requirements.

Transportation Needs

Deliver specimen to the laboratory within 1 hour of collection.

If not possible see “Storage Requirements”

Causes for Rejection

Mislabeled or unlabeled specimen

Less than 50% draw for vacutainer tubes

Serum or Plasma > 24 hours room temperature

No Add-ons to unopened sample > 24 hours refrigerated

No Add-ons to opened sample > 12 hours refrigerated

Reference Values

Population	Units	Reference Range	High Critical Value	Low Critical Value
All Populations	mOsm/kg	270-300	> 320	< 265

Additional Information

Testing should occur as soon as possible and not > 24 hours after receipt at MIB.

Can NOT add-on osmolality after aliquot has been opened and re-capped after 12 hours due to sensitivity to evaporation.

Available STAT

Yes

Methodology

Freezing Point Depression

CPT Code

83930