

LAB21777 Osmolality, Calculated

BMC, CRH, LFH, HRK, OCH, FTT, FOX, FCC

Specimen Type

Serum or Plasma

Preferred Container

Gold or Red top tube

Alternate Container

Green top tube

Minimum Volume to Submit for Testing

1 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

Plasma > 24 hours room temperature

No Add-ons to unopened serum > 24 hours refrigerated

No Add-ons to opened serum > 12 hours refrigerated

Reference Values

Population	Units	Reference Range
All Populations	(none)	270-300

Calculation

$\text{Osmolality} = (\text{Sodium} \times 2) + (\text{Urea Nitrogen} / 2.8) + (\text{Glucose} / 18)$

Available STAT

Yes

Methodology

Calculated from Sodium, Glucose, and Urea Nitrogen.

CPT Code

Sodium: 84295

Glucose: 82947

Urea Nitrogen: 84520

The three components will be performed and billed. There is no charge for the calculation.