

Patient Name	:		Bill Date	:	
DOB/Age/Gender	:		Sample Collected	:	
Patient ID / UHID	:		Sample Received	:	
Referred By	:		Report Date	:	
Sample Type	:		Report Status	:	
Barcode No	:				

Test Description	Value(s)	Unit(s)	Reference Range
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BIOCHEMISTRY REPORT

Osmolality, Serum

Osmolality serum	231.9	mOsm/kg	275 - 300
Method : (Serum,Freezing Point Depression)			

Interpretation:

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- Osmolality refers to the osmotic concentration of a fluid. It depends on the number of active ions or molecules in a solution.
- It gives information about a patient's ability to maintain a normal fluid balance status.
- Increased serum (hyperosmolality) levels are seen in renal disease, Congestive heart failure, Dehydration, Diabetes insipidus, Diabetes mellitus/hyperglycemia, hypernatremia,
- Decreased serum (hyposmolality) levels are seen in Hyponatremia, SIADH, Excessive water replacement/overhydration/water intoxication.

Serum Osmolality	Urine Osmolality	Clinical Significance
Normal or increased	Increased	Fluid volume deficit
Decreased	Decreased	Fluid volume excess
Normal	Decreased	Increased fluid intake or diuretics
Increased or normal	Decreased(with no increase in fluid intake)	Kidneys unable to concentrate urine or lack of ADH(diabetes insipidus)
Decreased	Increased	SIADH



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