

OSMOLALITY  
URINE/  
SERUM/  
PLASMA

## Orderable - OSMU / OSMS

Turnaround Time: 2 hours

STAT: 1 hour

### Specimen:

Random urine collected in a sterile container or 5 mL Gold or 4.5 mL Green top Vacutainer
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#### **Pediatric:**

0-2 years: 1 mL Red Microtainer 2-10 years: 2 mL Red top tube
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**Laboratory:**  
Core Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Freezing point  
depression.



**Test Schedule:**  
As required

### Collection Information:

Collect urine sample in a sterile container.

Collect blood aseptically in a Vacutainer tube.

A minimum volume of 1 mL is required for testing.

### Reference Ranges:

Urine:	Serum/Plasma:
300-900 mOsm/Kg	275-295 mOsm/Kg

### Interpretive Comments:

Useful in suspected poisoning with alcohol, methanol, ethylene glycol, acetone, isopropanol, diethyl ether or paraldehyde.

Comparing serum and urine osmolalities may help to determine the cause of polyuria, to diagnose SIADH and to distinguish 'pre-renal' from 'renal' causes of impaired renal function.