Lab Dept:	Urine/Stool
Test Name:	OSMOLALITY, URINE
General Information	
Lab Order Codes:	UOSM
Synonyms:	Osmo, Urine
CPT Codes:	83935 – Osmolality, urine
Test Includes:	Urine osmolality in mOSM/kg
Logistics	
Test Indications:	Determination of plasma and urine osmolality can be useful in the assessment of electrolyte and acid-base disorders. Comparisons can determine the status of renal water regulation in instances of severe electrolyte disturbances, as might occur in diabetes insipidus.
Lab Testing Sections:	Chemistry
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	4 hours
Special Instructions:	N/A
Specimen	
Specimen Type:	Urine, random collection
Container:	Plastic leakproof container (No preservatives)
Draw Volume:	1 - 3 mL from a random urine collection
Processed Volume:	Minimum: 0.2 mL urine

Collection:	A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.
Special Processing:	Lab Staff: Centrifuge specimen, aliquot supernatant into a plastic cup. Run within 4 hours or store at refrigerated temperatures.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens
Interpretive	
Reference Range:	<1 month: 50 - 600 mOSM/kg
	≥1 month: 50 - 1400 mOSM/kg
Critical Values:	N/A
Limitations:	N/A
Methodology:	Freezing Point Depression
References:	Advanced Instruments Osmometer Model 2020 Osmo1 User's Guide, 2025 Rev16, 081508, Two Technology Way, Norwood, Mass. 02062
	Tietz Textbook of Clinical Chemistry and Molecular Diagnostics (2006) Elsevier Saunders Company, pp. 991 - 994
	Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition, pp 236-237