

Reporting Title: Aldosterone with Sodium, Urine**Performing Location:** Rochester**Necessary Information:**

24-Hour volume (in milliliters) is required.

Specimen Requirements:

Patient Preparation: Spironolactone (Aldactone) should be discontinued for 4 to 6 weeks before testing. The plasma renin activity cannot be interpreted if the patient is being treated with spironolactone.

Supplies: Sarstedt Aliquot Tube 5mL (T914)

Container/Tube: 2 Plastic, 5-mL tubes

Specimen Volume: 10 mL

Collection Instructions:

1. Collect urine for 24 hours.
2. Add 25 mL of 50% acetic acid as preservative at start of collection. Use 15 mL of 50% acetic acid for children under the age of 5 years. This preservative is intended to achieve a pH of between approximately 2 and 4.
3. Place 5 mL of well mixed, 24-hour urine in plastic, 5-mL tube and label as Aldosterone.
4. Place 5 mL of well mixed, 24-hour urine in plastic, 5-mL tube and label as Sodium.

Additional Information: See Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens for multiple collections.

Specimen Minimum Volume:

2 mL

Urine Preservative Collection Options:

Note: The addition of preservative must occur prior to beginning the collection.

Ambient No

Refrigerate No

Frozen No

50% Acetic Acid Preferred

Boric Acid OK

Diazolidinyl Urea No

6M Hydrochloric Acid No

6M Nitric Acid No

Sodium Carbonate No

Thymol No

Toluene No

Specimen Type	Temperature	Time	Special Container
---------------	-------------	------	-------------------

Urine	Refrigerated (preferred)	14 days	
	Frozen	14 days	
	Ambient	7 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
ALDU	TM47	Collection Duration	Plain Text	Yes
ALDU	VL45	Urine Volume	Plain Text	Yes
NAU	TM11	Collection Duration	Plain Text	Yes
NAU	VL9	Urine Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
8556	Aldosterone, U Also used by tests: ALDU	Alphanumeric	mcg/24 h	1765-7
TM47	Collection Duration Also used by tests: ALDU	Alphanumeric		13362-9
VL45	Urine Volume Also used by tests: ALDU	Alphanumeric		3167-4
NA_24	Sodium, 24 HR, U Also used by tests: NAU	Numeric	mmol/24 h	2956-1
TM11	Collection Duration Also used by tests: NAU	Numeric	h	13362-9
VL9	Urine Volume Also used by tests: NAU	Numeric	mL	3167-4

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
ALDU	Aldosterone, U			Yes	Yes
NAU	Sodium, 24 HR, U			Yes	Yes

CPT Code Information:

82088-Aldosterone
84300-Sodium

Reference Values:**ALDOSTERONE**

0-30 days: 0.7-11.0 mcg/24 h*
1-11 months: 0.7-22.0 mcg/24 h*
> or =1 year: 2.0-20.0 mcg/24 h

*Loeuille GA, Racadot A, Vasseur P, Vandewalle B: Blood and urinary aldosterone levels in normal neonates, infants and children. *Pediatric* 1981 Jul-Aug;36(5):335-344

SODIUM

41-227 mmol/24 h
If the 24-hour urinary sodium excretion is greater than 200 mmol, the urinary aldosterone excretion should be less than 10 mcg.