



A nonprofit enterprise of the University of Utah
and its Department of Pathology

Effective Date: April 20, 2026

TEST CHANGE

Aldosterone/Renin Activity Ratio

0070073, A/RA

Specimen Requirements:

Patient Preparation: ~~Blood should be obtained in seated position in the morning without venous stasis (release tourniquet after venipuncture and wait at least 5 seconds before withdrawing blood). If the patient is supine, ensure that the patient is in this position for at least 30 minutes prior to collection. Collect midmorning after patient has been sitting, standing, or walking for at least 2 hours, and seated for 5-15 minutes. Refer to the Additional Technical Information for specific patient preparation recommendations.~~

Collect: Serum ~~separator tube~~ Separator Tube (SST) AND ~~L~~ Lavender (K2EDTA) or ~~P~~ Pink (K2EDTA). Do not collect in refrigerated tubes ~~nor store tubes on ice.~~

Specimen Preparation: Separate from cells ASAP or within 2 hours of collection.
Serum: Transfer 1 mL serum to an ARUP ~~standard transport tube~~ Standard Transport Tube. (Min: 0.5 mL)
AND
Plasma: Transfer 2 mL EDTA plasma to an ARUP ~~standard transport tube~~ Standard Transport Tube and freeze immediately. (Min: 1.2 mL) ~~Storage at refrigerated temperatures may cause falsely elevated results. Do not collect in refrigerated tubes. Process blood at room temperature and centrifuge tubes in a nonrefrigerated centrifuge.~~

Transport Temperature: Both specimens should be collected and submitted together for testing.
Serum: Frozen.
Plasma: CRITICAL FROZEN. Separate specimens must be submitted when additional tests are ordered.

Unacceptable Conditions: Plasma collected in citrate, heparin, or oxalate. Hemolyzed specimens.

Remarks:

Stability: Serum: Ambient: 8 hours; Refrigerated: 5 days; Frozen: 1 month
Plasma: Ambient: 6 hours; Refrigerated: Unacceptable; Frozen: 1 month

Methodology: Quantitative Chemiluminescent Immunoassay (CLIA) / Quantitative Enzyme-Linked Immunosorbent Assay (ELISA)

Note: Refer to the Additional Technical Information for Endocrine Society recommendations for patient preparation, specimen collection, medications for hypertension control during confirmatory testing for primary aldosteronism, and factors that may lead to false-positive or false-negative ARR results.

CPT Codes: 82088; 84244

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

~~This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.~~

Reference Interval:

Deleted Cells
Deleted Cells

Test Number	Components	Reference Interval			
	Aldosterone	Age	Posture Unspecified (ng/dL)	Supine (ng/dL)	Upright (ng/dL)
		0-6 days	5.0-102.0		
		1-3 weeks	6.0-179.0		
		1-11 months	7.0-99.0		
		1-2 years	7.0-93.0		
		3-10 years	4.0-44.0		
		11-14 years	4.0-31.0		
		15 years and older	31.0 or less	16.0 or less	4.0-31.0
	Aldosterone/Renin Activity Calculation	Less than or equal to 20			
	Renin Activity	Age	Supine (ng/mL/hr) <u>Normal sodium diet</u>	Upright (ng/mL/hr) <u>Normal sodium diet</u>	
		<u>Cord blood</u>	<u>4.0-32.0</u>	<u>Not Available</u>	
		Newborn (1-7 days)	2.0-35.0	Not Available	
		1-12 months	2.4-37.0	Not Available	
		13 months-3 years	1.7-11.2	Not Available	
		4-5 years	1.0-6.5	Less than or equal to 15	
		6-10 years	0.5-5.9	Less than or equal to 17	
		11-15 years	0.5-3.3	Less than or equal to 16	
		Adult	0.2-1.6	0.5-4.0	