

TEST CHANGE

Renin, Direct

2001575, RENIND

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). Collect midmorning (i.e., 7am – 10am) after patient has been sitting, standing, or walking for at least 30 minutes and seated for 5-15 minutes. If the patient is supine, ensure that the patient is in this position for at least 30 minutes prior to collection. ~~Fasting specimens are recommended but not required.~~

Collect: Lavender (EDTA) ~~from a supine or upright patient.~~ Do not collect in refrigerated tubes nor store tubes on ice. ~~Process blood at room temperature and centrifuge tubes in a non-refrigerated centrifuge.~~

Specimen Preparation: Separate from cells ASAP or within 2 hours of collection. Transfer 2 mL plasma to an ARUP standard transport tube ~~Standard Transport Tube~~ and freeze immediately. (Min: 1 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: CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered. ~~Frozen~~

Unacceptable Conditions: Serum. Specimens collected in citrate, heparin, or oxalate. Grossly hemolyzed or refrigerated specimens.

Remarks:

Stability: Ambient: 8 hours; Refrigerated: Unacceptable; Frozen: 4 weeks

Methodology: Quantitative Chemiluminescent Immunoassay (CLIA)

Note: Do not use this test for patients treated with cG~~at~~hepsin B. Menstruating females and those taking estrogen-containing medications may have lower renin direct concentrations, resulting in falsely high aldosterone-renin ratio (ARR). In these cases, order Aldosterone/Renin Activity Ratio (ARUP ~~t~~Test code 0070073). 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: 84244

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

Interpretive Data:

Reference Interval:

~~Upright <=40 yr: 4.2-52.2 pg/mL~~

~~Upright >40 yr: 3.6-81.6 pg/mL~~

~~Supine <=40 yr: 3.2-33.2 pg/mL~~

~~Supine >40 yr: 2.5-45.1 pg/mL~~

Test Number	Components	Reference Interval		
	Direct Renin			
		Age	Upright (pg/mL)	Supine (pg/mL)
		Less than or equal to 40 years	4.2-52.2	3.2-33.2
		Greater than 40 years	3.6-81.6	2.5-45.1