MAYO CLINIC LABORATORIES

Test Definition: FANG1

Angiotensin I, Plasma

Overview

Method Name
Direct ELISA

NY State Available
No

Specimen

Specimen Type
Plasma EDTA

Specimen Required
Patient preparation: Patient should be on a normal sodium diet, 110 mEq of sodium. Patient should be in a recumbent posture for at least 30 minutes prior to collection of specimen. Diuretics, mineralocorticoids, glucocorticoids, estrogens, oral contraceptives, and ACTH medications and sodium, potassium, and posture all affect Angiotensin levels.
Specimen Type: Plasma
Collection Container/Tube: EDTA
Submission Container/Tube: Plastic vial
Specimen Volume: 3 mL
Collection Instructions:
1. Draw blood in a lavender-top (EDTA) tube(s)
2. Centrifuge and aliquot 3 mL of plasma into a plastic vial.
3. Send frozen.

Specimen Minimum Volume
1 mL

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Plasma EDTA	Frozen	30 days	

Clinical & Interpretive

Clinical Information

Angiotensin I is a ten amino acid peptide formed by Renin cleavage of Angiotensinogen (Renin Substrate) I. Angiotensin I has little biological activity except that high levels cand stimulate Catecholamine production. It is metabolized to its biologically active byproduct Angiotensin II by Angiotensin Converting Enzyme (ACE). The formation of Angiotensin I is controlled by negative feedback of Angiotensin II and III on Renin release and by Aldosterone concentration. Levels of Angiotensin I are increased in many types of hypertension. Angiotensin I levels are used to determine Renin activity. Angiotensin I is excreted directly in the urine.

Reference Values

Up to 25 pg/mL

Clinical Reference

1. van Hooft IMS, Grobbee DE, Derkx FHM, et al. Renal Hemodynamics and the Renin-Angiotensin-Aldosterone System in Normotensive Subjects with Hypertensive and Normotensive Patients. N Engl J Med. 324:1305-1311, 1991
2. Oparia S and Haber E. The Renin-Angiotensin System. N Engl J Med. 291:389, 1974

Performance

PDF Report

Referral

Day(s) Performed

Monday through Friday

Report Available

12 to 14 days

Performing Laboratory Location

Inter Science Institute

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification

This test has not been cleared or approved by the US Food and Drug Administration.

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Angiotensin I, Plasma

This test was developed and its performance characteristics determined by Inter Science Institute. Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

CPT Code Information

83520

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FANG1	Angiotensin I, P	1858-0

Result ID	Test Result Name	Result LOINC® Value
FANG1	Angiotensin I, P	1858-0