



# 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 can 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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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