
Angiotensin II and Angiotensin (1-7), Plasma

Test ID: ANGII

Useful for:

Direct measurement of Angiotensin II (Ang II) and Angiotensin (1-7) (Ang 1-7) in plasma

Adjunct to plasma renin activity (PRA) and aldosterone measurements for the diagnosis of primary aldosteronism and renal-vascular hypertension.

Adjunct, or alternative to, PRA for investigations of potential associations with outcomes of coronavirus infection.

Drug studies as to renin-angiotensin system (RAS) manipulations that might be useful in treatment of cardiovascular diseases or corona virus infection.

This test is **not useful for** establishing eligibility for a specific treatment as results must be interpreted in conjunction with the clinical status of the patient.

Method Name:

Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

Reference Values:

Angiotensin II: <5-40 pg/mL

Angiotensin (1-7): <10-55 pg/mL

Specimen Requirements:

| | |
|-----------------------------------|--|
| Patient Preparation: | Results used for primary aldosteronism may not be interpretable if the patient is being treated with spironolactone (Aldactone). Spironolactone should be discontinued for 4 to 6 weeks before testing. See Cautions for more information. |
| Collection Container/Tube: | Chilled, lavender top (EDTA) |
| Submission Container/Tube: | Plastic vial |
| Specimen Volume: | 2 mL |

Collection Instructions:

1. Draw blood in a chilled syringe from a patient in a seated position; place specimen in a chilled, lavender-top (EDTA) tube; and mix
2. Alternatively, draw blood directly into a chilled, lavender-top (EDTA) tube.
3. Immediately place EDTA tube into an ice-water bath until thoroughly cooled.
4. Refrigerate specimen during centrifugation and immediately transfer plasma to plastic vial. If a refrigerated centrifuge is unavailable, chill the centrifuge carriers. Centrifuge specimen, then promptly transfer plasma.
5. Immediately freeze plasma.

Minimum Volume:

1.25 mL

Specimen Stability Information:

| Specimen Type | Temperature | Time |
|---------------|-------------|---------|
| Plasma EDTA | Frozen | 28 days |

Cautions:

Angiotensin-converting enzyme (ACE) inhibitors and angiotensin-receptor blockers (ARB) have the potential to impact angiotensin II levels in plasma. Patient should be on a normal sodium diet. It may be beneficial to have patient seated in a recumbent posture if possible for at least 30 minutes prior to collecting specimen. Steroids, estrogens, oral contraceptives, ACT medications, and diuretics will all affect angiotensin II levels as will posture along with sodium, potassium, and multivitamins. Results used for primary aldosteronism may not be interpretable if the patient is being treated with spironolactone (Aldactone). Spironolactone should be discontinued for 4 to 6 weeks before testing.

CPT Code:

82163

Day(s) Setup: Varies**Analytic Time:** 2 days**Note:**

The following referral test code will become obsolete on August 14, 2020.

| Test Name | Test ID | Referral Lab |
|------------------------|---------|-------------------------|
| Angiotensin II, Plasma | FANG | Inter Science Institute |

Questions

Contact Kim Terrio, Laboratory Technologist Resource Coordinator at 800-533-1710.