

# Angiotensin Converting Enzyme (ACE)

**CPT Code:** 82164

**Order Code:** 683

**ABN Requirement:** No

**Alternative Name(s):** Angiotensin-1-Converting Enzyme, ACE

**Specimen:**

**Preferred:** Serum

**Alternate:** Lithium Heparin Plasma

**Volume:** 1.0 mL

**Minimum Volume:** 0.5 mL

**Container:**

**Preferred:** Serum Separator Tube (SST; Gel Barrier) Plasma collected in: Sodium Heparin (green-top) tube Lithium Heparin (green-top) tube

**Alternate:** Green Top (Lithium Heparin) Tube

**Collection:**

**Serum (preferred):**

1. Collect and label sample according to standard protocols.
2. Gently invert tube 5 times immediately after draw. Do not shake.
3. Allow blood to clot 30 minutes.
4. Centrifuge for 10 minutes.

**Lithium Heparin Plasma (alternative):**

1. Collect and label sample according to standard protocols.
2. Gently invert tube 10 times immediately after draw. Do not shake.
3. Centrifuge for 10 minutes.
4. Aliquot plasma into transport tube labeled as "Lithium Heparin Plasma" and cap tightly.  
Discard original tube.

**Collection Instructions:** Centrifuge specimen within 1 hour of collection.

**Transport:** Store specimen at 2°C to 8°C after collection and ship the same day

per packaging instructions included with the provided shipping box.

**Stability:**

**Ambient (15-25°C):** 7 days

**Refrigerated (2-8°C):** 7 days

**Frozen (-20°C):** 60 days

**Causes for Rejection:** Gross hemolysis; Grossly lipemic

**Methodology:** Spectrophotometry (SP)

**Turn Around Time:** 2 to 4 days

**Reference Range:**

Age	Reference Range (U/L)
6 Months-17 Years	13-100 U/L
Adult	9-67 U/L

**Clinical Significance:** This test is useful in evaluating patients presenting with sarcoidosis, Gaucher’s disease, and lymphangiomyomatosis in that the enzyme is increased in these clinical settings.

*The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.*