

## ACTH (Adrenocorticotrophic Hormone) Stimulation

Order Name: **ACTH STIM**

Test Number: 2002151

Revision Date: 10/01/2022

TEST NAME	METHODOLOGY	LOINC CODE
<b>Cortisol Baseline</b>	Chemiluminescent Micropartical Immunoassay	43215-3
<b>Cortisol 30 Minute Specimen</b>	Chemiluminescent Micropartical Immunoassay	12557-5
<b>Cortisol 60 Minute Specimen</b>	Chemiluminescent Micropartical Immunoassay	12558-3

### SPECIMEN REQUIREMENTS

Specimen	Specimen Volume (mL)	Specimen Type	Specimen Container	Transport Environment
<b>Preferred</b>	<b>1 mL (0.5)</b>	<b>Serum</b>	<b>Clot Activator SST</b>	<b>Refrigerated or Frozen</b>
<b>Alternate 1</b>	<b>1 mL (0.5)</b>	<b>Plasma</b>	<b>Lithium Heparin PST (Light Green Top)</b>	<b>Refrigerated or Frozen</b>
<b>Instructions</b>	<b>This test needs to be scheduled for Collection.</b> See information in the Notes Section below. Stability: Ambient 1 day. Refrigerated 14 days. Frozen 30 days.			

## GENERAL INFORMATION

**Testing Schedule** Mon - Fri

**Expected TAT** 1-3 days

**Clinical Use** This test determines how the adrenal glands respond to a certain hormone. The hormone is called adrenocorticotrophic hormone, also known as ACTH. ACTH is made in the pituitary gland and travels through the bloodstream to the adrenal glands. ACTH stimulates the adrenal gland to release Cortisol. Cortisol is a key factor in many functions in the body's metabolism of fats, carbohydrates, sodium, potassium, and protein.

### Notes

#### TESTING LOCATIONS

**Tulsa**

Cortisol (ACTH) Stimulations may be scheduled with **Labcorp Oklahoma, Inc. Patient Service Center at St. John Medical Center** for collections M-F 7:30am to 4:00pm at **(918) 744-3131 x 15531**; after 4:00pm may be scheduled with Chemistry department at **(918)744-3131 x 15514**. Testing is performed Monday through Friday 9:00am to 11am. and requires about 1 hour and 15 minutes of the patient's time.

**Bartlesville**

Cortisol (ACTH) stimulations may be scheduled with **Labcorp Oklahoma, Inc.** at **Jane Phillips Medical Center**, Monday through Friday at **(918) 331-1737**.

**Physician Office**

If the testing is performed in the physician's office, the following protocol is suggested.

#### ACTH STIMULATION TEST

1. Baseline Cortisol - Have a Cortisol drawn prior to injection (5 ml gold top tube). Note the time drawn on the tube.
2. Administer 250 micrograms (1 vial) of synthetic ACTH Cortrosyn (Cosyntropin) intravenously. Use supplied diluents to dissolve ACTH powder. Inject over 1-2 minutes.
3. 30 minute Cortisol - draw one clot tube for a Cortisol level 30 minutes after the injection. Note the time drawn on the tube.
4. 60 minute Cortisol - draw a second clot tube for a Cortisol level 60 minutes after the injection. Note the time drawn on the tube.

**CPT Code(s)** 80400, 82533, 80503

**Lab Section** Chemistry