

Adrenal Mass Panel, 24 Hour, Urine

Test ID: ACC

Useful for:

Aids in assessing malignancy in adrenal masses

May aid in improving diagnostic and prognostic prediction and dissect disease mechanisms for the following applications:

- Diagnostic assessment and follow up of adrenal cortical carcinoma (ACC)
- Differential diagnostic assessment of adrenal tumors
- Additional assessment related to Cushing syndrome, subclinical Cushing syndrome, primary aldosteronism, inborn errors of steroidogenesis, polycystic ovary syndrome

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, High-Resolution Accurate Mass (LC-MS/MS HRAM)

Reference Values:

Note: Due to the wide range of urine steroid metabolite concentrations seen in healthy individuals and their skewed distribution, the reference ranges are based on the back calculated +/- 3SD of log transformed data.

Females 18-49 years:	Females > or =50 years:
Androsterone: 90-29,625 mcg/24 hour	Androsterone: 32-10,134 mcg/24 hour
Etiocholanolone: 127-24,568 mcg/24 hour	Etiocholanolone: 52-10,946 mcg/24 hour
Dehydroepiandrosterone: <5-12,317 mcg/24 hour	Dehydroepiandrosterone: <5-10,046 mcg/24 hour
16a-OH-Dehydroepiandrosterone: 5-31,248 mcg/24 hour	16a-OH-Dehydroepiandrosterone: <5-9,982 mcg/24 hour
5-Pregnenetriol: 17-4,166 mcg/24 hour	5-Pregnenetriol: 10-1,901 mcg/24 hour
5-Pregnenediol: 6-2,900 mcg/24 hour	5-Pregnenediol: <5-2,732 mcg/24 hour
Tetrahydro-11-Corticosterone: 13-1,548 mcg/24 hour	Tetrahydro-11-Corticosterone: 14-1,229 mcg/24 hour
Tetrahydro-11-Deoxycorticosterone: <5-833 mcg/24 hour	Tetrahydro-11-Deoxycorticosterone: <5-123 mcg/24 hour
h Pregnanediol: 8-44,760 mcg/24 hour	Pregnanediol: 8-2,138 mcg/24 hour
17a-OH-Pregnanolone: 7-3,208 mcg/24 hour	17a-OH-Pregnanolone: <5-571 mcg/24 hour
Pregnanetriol: 50-9,768 mcg/24 hour	Pregnanetriol: 26-3,444 mcg/24 hour
Pregnanetriolone: <5-139 mcg/24 hour	Pregnanetriolone: <5-348 mcg/24 hour
Tetrahydrodeoxycortisol: 7-1,047 mcg/24 hour	Tetrahydrodeoxycortisol: 8-801 mcg/24 hour
Cortisol: 11-642 mcg/24 hour	Cortisol: 9-336 mcg/24 hour

6B-OH-Cortisol: 22-2,061 mcg/24 hour	6B-OH-Cortisol: 25-1,365 mcg/24 hour
Tetrahydrocortisol: 185-16,515 mcg/24 hour	Tetrahydrocortisol: 237-14,050 mcg/24 hour
5a-Tetrahydrocortisol: 45-22,591 mcg/24 hour	5a-Tetrahydrocortisol: 92-12,604 mcg/24 hour
B-Cortol: 28-4260 mcg/24 hour	B-Cortol: 29-3289 mcg/24 hour
11B-OH-Androsterone: 59-12,462 mcg/24 hour	11B-OH-Androsterone: 86-9,280 mcg/24 hour
11B-OH-Etiocholanolone: 32-6,354 mcg/24 hour	11B-OH-Etiocholanolone: 40-7,002 mcg/24 hour
Cortisone: 19-749 mcg/24 hour	Cortisone: 15-555 mcg/24 hour
Tetrahydrocortisone: 262-32,461 mcg/24 hour	Tetrahydrocortisone: 359-24,320 mcg/24 hour
a-Cortolone: 207-13,931 mcg/24 hour	a-Cortolone: 125-17,472 mcg/24 hour
B-Cortolone: 63-7,489 mcg/24 hour	B-Cortolone: 82-5,784 mcg/24 hour
11-Oxoetiocholanolone: 63-7,449 mcg/24 hour	11-Oxoetiocholanolone: 78-6,571 mcg/24 hour

Males 18-49 years:	Males > or =50 years:
Androsterone: 182-29,212 mcg/24 hour	Androsterone: 118-25,389 mcg/24 hour
Etiocholanolone: 133-23,272 mcg/24 hour	Etiocholanolone: 127-15,640 mcg/24 hour
Dehydroepiandrosterone: <5-81,554 mcg/24 hour	Dehydroepiandrosterone: 7-4,260 mcg/24 hour
16a-OH-Dehydroepiandrosterone: 13-29,945 mcg/24 hour	16a-OH-Dehydroepiandrosterone: 11-6,183 mcg/24 hour
5-Pregnenetriol: 23-7,328 mcg/24 hour	5-Pregnenetriol: 24-2,162 mcg/24 hour
5-Pregnenediol: 13-2,823 mcg/24 hour	5-Pregnenediol: 17-1,296 mcg/24 hour
Tetrahydro-11-Corticosterone: 8-1,961 mcg/24 hour	Tetrahydro-11-Corticosterone: 16-1,674 mcg/24 hour
Tetrahydro-11-Deoxycorticosterone: <5-316 mcg/24 hour	Tetrahydro-11-Deoxycorticosterone: <5-297 mcg/24 hour
Pregnanediol: 12-3,812 mcg/24 hour	Pregnanediol: 23-1,846 mcg/24 hour
17a-OH-Pregnanolone: 15-2,466 mcg/24 hour	17a-OH-Pregnanolone: 18-1,747 mcg/24 hour
Pregnanetriol: 66-9,409 mcg/24 hour	Pregnanetriol: 115-5,432 mcg/24 hour
Pregnanetriolone: <5-550 mcg/24 hour	Pregnanetriolone: 5-221 mcg/24 hour
Tetrahydrodeoxycortisol: 7-1520 mcg/24 hour	Tetrahydrodeoxycortisol: 12-1,277 mcg/24 hour
Cortisol: <5-903 mcg/24 hour	Cortisol: 12-597 mcg/24 hour
6B-OH-Cortisol: 13-2,303 mcg/24 hour	6B-OH-Cortisol: 22-2,406 mcg/24 hour
Tetrahydrocortisol: 152-22,723 mcg/24 hour	Tetrahydrocortisol: 331-19,009 mcg/24 hour
5a-Tetrahydrocortisol: 157-24,059 mcg/24 hour	5a-Tetrahydrocortisol: 155-35,266 mcg/24 hour
B-Cortol: 30-5,115 mcg/24 hour	B-Cortol: 56-3,541 mcg/24 hour
11B-OH-Androsterone: 108-11,987 mcg/24 hour	11B-OH-Androsterone: 142-13,135 mcg/24 hour
11B-OH-Etiocholanolone: 22-8,312 mcg/24 hour	11B-OH-Etiocholanolone: 69-6,805 mcg/24 hour
Cortisone: 12-842 mcg/24 hour	Cortisone: 24-732 mcg/24 hour
Tetrahydrocortisone: 271-44,355 mcg/24 hour	Tetrahydrocortisone: 454-34,576 mcg/24 hour
a-Cortolone: 140-14,885 mcg/24 hour	a-Cortolone: 211-17,591 mcg/24 hour
B-Cortolone: 72-9,740 mcg/24 hour	B-Cortolone: 114-8,434 mcg/24 hour
11-Oxoetiocholanolone: 70-8,446 mcg/24 hour	11-Oxoetiocholanolone: 155-7,174 mcg/24 hour

Specimen Requirements:

Supplies:	Urine Tubes, 5 mL (T465)
Container/Tube:	Plastic urine tube
Specimen Volume:	4 mL
Collection Instructions:	1. Collect urine for a full 24 hours (required) and record the total volume 2. Do not add preservatives. Specimens containing preservatives will be canceled. 3. Entire 24 hour collection must be mixed well prior to aliquoting into a 5 mL plastic tube.
Minimum Volume:	2 mL

Necessary Information:

Collection duration and 24-hour volume is required.

Include the following required information:

- Age at diagnosis
- Gender
- Mode of discovery (incidental, cancer staging, other)
- Tumor diameter (mm)
- Unenhanced CT (Hounsfield units)
- Hormonal excess (Yes, No)

Special Instructions:

- [Adrenal Mass Panel Clinical Data Definition of Malignancy Predictors](#)
- [Adrenal Mass Panel Patient Information](#)

Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Frozen (preferred)	90 days
	Refrigerate	14 days

Cautions:

Test results cannot be interpreted as absolute evidence for the presence or absence of malignant disease. This test should not form the sole basis for a diagnosis or treatment decision as results must be interpreted within the clinical context of the patient and should always be used in conjunction with clinical findings.

This test may be difficult to interpret in pregnant women and in patients with severe impairment of liver or kidney function.

Risk assignments for other malignancy may not be as accurate as risk assignment for adrenal cortical carcinoma (ACC) or adrenal cortical adenoma (ACA).

Day(s) Setup: Monday; 4 p.m. **CPT Code:** 81599 **Analytic Time:** 7 days

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