

Reporting Title: Cortisol/Cortisone, Free, U
Performing Location: Rochester

Necessary Information:
24-Hour volume (in milliliters) is required.

Specimen Requirements:
Supplies: Urine Tubes, 10-mL (T068)
Submission Container/Tube: Plastic, urine tube (T068)
Specimen Volume: 5 mL
Collection Instructions:

- 1. Add 10 g of boric acid as preservative at start of collection.
- 2. Collect urine for a full 24 hours (required) and record the total volume.

Additional Information: See [Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens](#) for multiple collections.

Urine Preservative Collection Options:

Note: The addition of preservative or application of temperature controls **must occur at the start** of the collection.

Ambient (no additive)	No
Refrigerate (no additive)	OK
Frozen (no additive)	OK
50% Acetic Acid	OK
Boric Acid	Preferred
Diazolidinyl Urea	No
6M Hydrochloric Acid	No
6M Nitric Acid	No
Sodium Carbonate	No
Thymol	No
Toluene	No

Specimen Type	Temperature	Time	Special Container
Urine	Ambient	72 hours	
	Refrigerated (preferred)	14 days	
	Frozen	28 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
COCOU	TM93	Collection Duration (h)	Plain Text	Yes
COCOU	VL47	Volume (mL)	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
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8546	Cortisol, U	Alphanumeric	mcg/24 h	14158-0
10327	Cortisone, U	Alphanumeric	mcg/24 h	14044-2
TM93	Collection Duration (h)	Alphanumeric		13362-9
VL47	Volume (mL)	Alphanumeric		3167-4

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

82530-Cortisol; free
82542

Reference Values:

CORTISOL
0-2 years: not established
3-8 years: 1.4-20 mcg/24 h
9-12 years: 2.6-37 mcg/24 h
13-17 years: 4.0-56 mcg/24 h
> or =18 years: 3.5-45 mcg/24 h

CORTISONE
0-2 years: not established
3-8 years: 5.5-41 mcg/24 h
9-12 years: 9.9-73 mcg/24 h
13-17 years: 15-108 mcg/24 h
> or =18 years: 17-129 mcg/24 h

Use the factors below to convert each analyte from mcg/24 h to nmol/24 h:

Conversion factors
Cortisol: mcg/24 hours x 2.76=nmol/24 h (molecular weight=362.5)
Cortisone: mcg/24 hours x 2.78=nmol/24 h (molecular weight=360)

For International System of Units (SI) conversion for Reference Values, see
www.mayocliniclabs.com/order-tests/si-unit-conversion.html