

**Reporting Title:** Cortisol, Free, U

**Performing Location:** Mayo Clinic Laboratories - Rochester Superior Drive

**Necessary Information:**

**24-Hour volume (in milliliters) is required.**

**Specimen Requirements:**

**Supplies:** Urine Tubes, 10-mL (T068)

**Submission Container/Tube:** Plastic urine tube

**Specimen Volume:** 5 mL

**Collection Instructions:**

1. Collect urine for 24 hours.
2. Add 10 g of boric acid as preservative at start of collection.

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

**Forms:**

If not ordering electronically, complete, print, and send a [Renal Diagnostics Test Request](#) (T830) with the specimen.

**Urine Preservative Collection Options:**

**Note:** The addition of preservative **must occur prior to the start of** the collection or application of temperature controls **must occur during 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	Refrigerated (preferred)	14 days	
	Ambient	7 days	
	Frozen	28 days	

**Ask at Order Entry (AOE) Questions:**

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

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
8546	Cortisol, U	Alphanumeric	mcg/24 h	14158-0
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

**Reference Values:**

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

Use the factor below to convert from mcg/24 hr to nmol/24 hr:

Conversion factor

Cortisol:  $\text{mcg/24 h} \times 2.76 = \text{nmol/24 hr}$  (molecular weight=362.5)

For International System of Units (SI) conversion for Reference Values, see

[www.mayocliniclabs.com/order-tests/si-unit-conversion.html](http://www.mayocliniclabs.com/order-tests/si-unit-conversion.html).