

Reporting Title: Cadmium, 24 Hr, U
Performing Location: Rochester

Ordering Guidance:

If employees are being monitored in the workplace, OSHA requires that laboratory reports express the cadmium excretion rate per gram of creatinine rather than per 24 hours. Order CDUOE / Cadmium, Occupational Exposure, Random, Urine to accommodate that requirement. Mayo Clinic Laboratories is certified to provide this test.

Necessary Information:

24-Hour volume (in milliliters) is required.

Specimen Requirements:

Patient Preparation:

- For the 48-hour period prior to start of collection, as well as during the collection, patient **should not** eat seafood.
- High concentrations of gadolinium and iodine are known to potentially interfere with most inductively coupled plasma mass spectrometry-based metal tests. If either gadolinium or iodine containing contrast media has been administered, **a specimen should not be collected for 96 hours.**

Supplies: Urine Tubes, 10 mL (T068)

Collection Container/Tube: Clean, plastic urine container with no metal cap or glued insert

Submission Container/Tube: Plastic, 10-mL urine tube or clean, plastic aliquot container with no metal cap or glued insert

Specimen Volume: 3 mL

Collection Instructions:

- Collect urine for 24 hours.
- Refrigerate specimen within 4 hours of completion of 24-hour collection.
- See [Metals Analysis Specimen Collection and Transport](#) for complete instructions.

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 within 4 hours of completion** of the collection.

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

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

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
CDU	TIME7	Collection Duration (h)	Plain Text	Yes
CDU	VL83	Volume (mL)	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
31106	Cadmium, 24 Hr, U	Numeric	mcg/24 h	5612-7
TIME7	Collection Duration (h)	Alphanumeric		13362-9
VL83	Volume (mL)	Alphanumeric		3167-4

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

Supplemental Report:

No

CPT Code Information:

82300

Reference Values:

0-17 years: Not established
> or =18 years: <0.7 mcg/24 h