

Reporting Title: Heavy Metal Scrn w/Reflex, 24 Hr, U

Performing Location: Rochester

Specimen Requirements:

Patient Preparation:

-High concentrations of gadolinium and iodine are known to interfere with most metals tests. If either gadolinium- or iodine-containing contrast media has been administered, a specimen should not be collected for 96 hours.

-Patient should not eat seafood for a 48-hour period prior to start of collection.

Supplies: Urine Tubes, 10 mL (T068)

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

Submission Container/Tube: Plastic, 10-mL urine tube (T068)

Specimen Volume: 10 mL

Collection Instructions:

1. Collect urine for 24 hours.
2. Refrigerate specimen within 4 hours of completion of 24-hour collection.
3. See Trace Metals Analysis Specimen Collection and Transport in Special Instructions for complete instructions.

Additional Information: See Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens in Special Instructions for multiple collections.

Urine Preservative Collection Options:

- Ambient No
- Refrigerated Preferred
- Frozen Yes
- 6N HCl Yes
- 50% Acetic Acid Yes
- Na₂CO₃ No
- Toluene Yes
- 6N HNO₃ No
- Boric Acid No
- Thymol No

Urine	Refrigerated (preferred)	7 days
	Frozen	7 days

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
ASFR	TM4	Collection Duration	Plain Text	No
ASFR	VL2	Urine Volume	Plain Text	No

Test ID	Question ID	Description	Type	Reportable
CDHMU	TIME4	Collection Duration	Plain Text	Yes
CDHMU	VL16	Total Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
48539	Arsenic, 24 Hr, U	Numeric	mcg/24 h	5587-1
92215	Arsenic Concentration w/Reflex	Numeric	mcg/L	21074-0
8678	Cadmium, 24 Hr, U Also used by tests: CDHMU	Numeric	mcg/24 h	5612-7
TIME4	Collection Duration Also used by tests: CDHMU	Alphanumeric		13362-9
VL16	Total Volume Also used by tests: CDHMU	Alphanumeric		3167-4
92408	Mercury, 24 Hr, U	Numeric	mcg/24 h	6693-6
92409	Lead, 24 Hr, U	Numeric	mcg/24 h	5677-0

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
ASHU	Arsenic, 24 Hr, U			Yes	Yes (order ASU24)
CDHMU	Cadmium, 24 Hr, U	1	82300	Yes	Yes (order CDU)
HGHU	Mercury, 24 Hr, U			Yes	Yes (order HGU)
PBHU	Lead, 24 Hr, U			Yes	Yes (order PBHU)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
ASFR	Arsenic Fractionation, 24 Hr, U	1	82175	No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
ASFR	3628	Inorganic Arsenic (Toxic)	Numeric	mcg/24 h	53838-9
ASFR	3629	Organic Arsenic (Non-Toxic)	Numeric	mcg/24 h	53839-7
ASFR	113133	Total Arsenic	Numeric	mcg/24 h	5587-1
ASFR	TM4	Collection Duration	Alphanumeric		13362-9
ASFR	VL2	Urine Volume	Alphanumeric		3167-4

Reference Values:

ARSENIC:

0-17 years: not established
 > or =18 years: <18 mcg/24 hour

CADMIUM:

0-17 years: not established
 > or =18 years: <0.6 mcg/24 hour

MERCURY:

0-17 years: not established
 > or =18 years: <2 mcg/24 hour
 Toxic concentration: >50 mcg/24 hour

The concentration at which toxicity is expressed is widely variable between patients. 50 mcg/24 hour is the lowest concentration at which toxicity is usually apparent.

LEAD:

0-17 years: not established
 > or =18 years: <1 mcg/24 hour