Test Definition: HMSU

Heavy Metals Screen, 24 Hour, Urine

Reporting Title: Heavy Metals Scrn, 24 Hr, U
Performing Location: Rochester

Specimen Requirements:

Collection Container/Tube: Clean, plastic aliquot container with no metal cap or glued insert
Submission Container/Tube: Plastic, 10-mL urine tube (Supply T068)
Specimen Volume: 10 mL
Collection Instructions:
1. Collect urine for 24 hours.
2. No preservative.
3. See Metals Analysis-Collection and Transport in Special Instructions for complete instructions.
4. Refrigerate specimen within 4 hours of completion of 24-hour collection.
Additional Information:
1. 24-Hour volume is required.
2. See Urine Preservatives in Special Instructions for multiple collections.
3. Patient should not eat seafood for a 48-hour period prior to start of collection.
4. 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.

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

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	7 days
	Frozen	7 days

Ask at Order Entry (AOE) Questions:

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®
8644	Arsenic, 24 Hr, U	Numeric	mcg/spec	5587-1
2547	As Concentration	Numeric	mcg/L	5586-3
8600	Lead, 24 Hr, U	Numeric	mcg/spec	5677-0
2548	Pb Concentration	Numeric	mcg/L	5676-2
8678	Cadmium, 24 Hr, U	Numeric	mcg/spec	5612-7
TIME4	Collection Duration	Alphanumeric		13362-9
VL16	Total Volume	Alphanumeric		28009-9
2654	Cd Concentration	Numeric	mcg/L	5611-9
2549	Mercury, 24 Hr, U	Numeric	mcg/spec	6693-6
26627	Hg Concentration	Numeric	mcg/L	5689-5

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
ASHMS	Arsenic, 24 Hr, U	1	82175	Yes	Yes (order ASU)
PBS	Lead, 24 Hr, U	1	83655	Yes	Yes (order PBU)
CDHMU	Cadmium, 24 Hr, U	1	82300	Yes	Yes (order CDU)
HGHMS	Mercury, 24 Hr, U	1	83825	Yes	Yes (order HGU)

Reference Values:

ARSENIC
0-35 mcg/specimen
Reference values apply to all ages.

LEAD
0-4 mcg/specimen
Reference values apply to all ages.

CADMIUM
0-15 years: not established

> or =16 years: 0.0-1.3 mcg/specimen

MERCURY
0-15 years: not established
> or =16 years: 0-9 mcg/specimen
Toxic concentration: >50 mcg/specimen
The concentration at which toxicity is expressed is widely variable between patients. 50 mcg/specimen is the lowest concentration at which toxicity is usually apparent.