

**0020572**

**Heavy Metals Panel 4, Urine with Reflex to Arsenic Fractionated**

**HY MET U4**

**Performed:** Sun-Sat  
**Reported:** 1-3 days

**Specimen Required:** Patient Prep: Diet, medication, and nutritional supplements may introduce interfering substances. Patients should be encouraged to discontinue nutritional supplements, vitamins, minerals, non-essential over-the-counter medications (upon the advice of their physician), and avoid shellfish and seafood for 48 to 72 hours. High concentrations of iodine may interfere with elemental testing. **Collection of urine specimens from patients receiving iodinated or gadolinium-based contrast media should be avoided for a minimum of 72 hours post-exposure. Collection from patients with impaired kidney function should be avoided for a minimum of 14 days post-contrast media exposure.**

Collect: 24-hour or random urine collection. Specimen must be collected in a plastic container and should be refrigerated during collection. **ARUP studies indicate that refrigeration of urine alone, during and after collection, preserves specimens adequately if tested within 14 days of collection.**

Specimen Preparation: Transfer 8 mL aliquot from a well-mixed collection to ARUP Trace Element-Free Transport Tubes (ARUP supply #43116). Available online through eSupply using ARUP Connect™ or contact ARUP Client Services at (800) 522-2787. (Min: 2 mL)

Storage/Transport Temperature: Refrigerated. Also acceptable: Room temperature or frozen.

Remarks: Trace Elements requisition form may be required (ARUP form #32990-Barcode; #32991-No Barcode). Record total volume and collection time interval on transport tube and on test request form.

Unacceptable Conditions: **Urine collected within 72 hours after administration of iodinated or gadolinium-based contrast media.** Acid preserved urine. Specimens contaminated with blood or fecal material. Specimen transported in non-trace element-free transport tube (with the exception of the original device).

Stability (collection to initiation of testing): Ambient: 1 week; Refrigerated: 2 weeks; Frozen: 1 year

**Reference Interval:**

Test Number	Components	Reference Interval
0025000	Arsenic, Urine with Reflex to Fractionated	Effective November 13, 2017
		<b>Test Number</b>   <b>Components</b>   <b>Reference Interval</b>
		Arsenic, Urine - per volume   0-34.9 µg/L (based on Biological Exposure Index)
		Arsenic, Urine - per 24h   0-49.9 µg/d
		Arsenic, Urine- ratio to CRT   0.0-29.9 µg/gCRT
		0020734   Arsenic, Fractionated, Urine   Refer to report
0025060	Lead, Urine	Effective November 12, 2018
		<b>Test Number</b>   <b>Components</b>   <b>Reference Interval</b>
		Lead, Urine - per volume   0.0-5.0 µg/L
		Lead, Urine - per 24h   0.0-8.1 µg/d
		Lead Urine-ratio to CRT   0.0-5.0 ug/gCRT
		Creatinine, Urine - per 24h   Refer to report
0025050	Mercury, Urine	Effective November 12, 2018
		<b>Test Number</b>   <b>Components</b>   <b>Reference Interval</b>
		Mercury, Urine - per volume   0.0-5.0 µg/L
		Mercury, Urine - per 24h   0.0-20.0 µg/d
		Mercury, Urine - ratio to CRT   0.0-20.0 µg/gCRT
		Creatinine, Urine - per 24h   Refer to report
0025040	Cadmium, Urine	Effective November 13, 2017
		<b>Test Number</b>   <b>Components</b>   <b>Reference Interval</b>
		Cadmium, Urine - per volume   0.0-1.0 µg/L
		Cadmium, Urine - per 24h   0.0-3.2 µg/d
		Cadmium, Urine - ratio to CRT   0.0-3.2 µg/g crt
		Creatinine, Urine - per 24h   Refer to report