

Quarterly HOTLINE: Effective November 12, 2018

0025050 Mercury, Urine

MERCURY U

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, and 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. **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 an 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: 1 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. Specimens 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		
	Mercury, Urine - per volume	Effective November 12, 2018 0.0-5.0 µg/L		
	Mercury, Urine - per 24h	Effective November 12, 2018 0.0-20.0 µg/d		
	Mercury, Urine - ratio to CRT	0.0-20.0 µg/gCRT		
	Creatinine, Urine - per 24h	Age	Male	Female
		3-8 years	140-700 mg/d	140-700 mg/d
		9-12 years	300-1300 mg/d	300-1300 mg/d
		13-17 years	500-2300 mg/d	400-1600 mg/d
		18-50 years	1000-2500 mg/d	700-1600 mg/d
		51-80 years	800-2100 mg/d	500-1400 mg/d
		81 years and older	600-2000 mg/d	400-1300 mg/d