

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 7/24/1965
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Heavy Metals Panel 4, Urine with Reflex to Arsenic Fractionated

ARUP test code 0020572

Hours Collected	24 hr	
	Per 24h calculations are provided to aid interpretation for collections with a duration of 24 hours and an average daily urine volume. For specimens with notable deviations in collection time or volume, ratios of analytes to a corresponding urine creatinine concentration may assist in result interpretation.	
Total Volume	2500 mL	
Creatinine, Urine - per volume	50 mg/dL	
Creatinine, Urine - per 24h	1250 mg/d	(Ref Interval: 500-1400)
Cadmium, Urine - per volume	<1.0 ug/L	(Ref Interval: 0.0-1.0)
	INTERPRETATION INFORMATION: Cadmium, Urine Urine cadmium levels can be used to assess cadmium body burden. In chronic exposures, the kidneys are the primary target organ. Symptoms associated with cadmium toxicity vary based upon route of exposure and may include tubular proteinuria, fever, headache, dyspnea, chest pain, conjunctivitis, rhinitis, sore throat and cough. Ingestion of cadmium in high concentration may cause vomiting, diarrhea, salivation, cramps, and abdominal pain. This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.	
Cadmium, Urine - per 24h	Not Applicable ug/d	(Ref Interval: 0.0-3.2)
Cadmium, Urine - ratio to CRT	Not Applicable ug/g CRT	(Ref Interval: 0.0-3.2)

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

Unable to accurately calculate the creatinine normalized result due to a low per volume result.

Lead, Urine - per volume <5.0 ug/L (Ref Interval: 0.0-5.0)
 INTERPRETIVE INFORMATION: Lead, Urine
 Quantification of urine excretion rates before or after chelation therapy has been used as an indicator of lead exposure. Urinary excretion of >125 mg of lead per 24 hours is usually associated with related evidence of lead toxicity.
 This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Lead, Urine - per 24h Not Applicable ug/d (Ref Interval: 0.0-8.1)

Lead, Urine - ratio to CRT Not Applicable ug/g CRT (Ref Interval: 0.0-5.0)
 Unable to accurately calculate the creatinine normalized result due to a low per volume result.

Mercury, Urine - per volume <2.5 ug/L (Ref Interval: 0.0-5.0)
 INTERPRETIVE INFORMATION: Mercury, Urine
 Urinary mercury levels predominantly reflect acute or chronic elemental or inorganic mercury exposure. Urine concentrations in unexposed individuals are typically less than 10 ug/L. 24 hour urine concentrations of 30 to 100 ug/L may be associated with subclinical neuropsychiatric symptoms and tremors. Concentrations greater than 100 ug/L can be associated with overt neuropsychiatric disturbances and tremors. Urine mercury levels may be useful in monitoring chelation therapy.
 This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Mercury, Urine - per 24h Not Applicable ug/d (Ref Interval: 0.0-20.0)

Mercury, Urine - ratio to CRT Not Applicable ug/g CRT (Ref Interval: 0.0-20.0)
 Unable to accurately calculate the creatinine normalized result due to a low per volume result.

H=High, L=Low, *=Abnormal, C=Critical

Arsenic Urine - per volume

<10.0 ug/L (Ref Interval: 0.0-34.9)

INTERPRETIVE INFORMATION: Arsenic, Urine w/ Reflex to Fractionated

The ACGIH Biological Exposure Index (BEI) for arsenic in urine is 35 ug/L. The ACGIH BEI is based on the sum of inorganic and methylated species. For specimens with elevated total arsenic results, fractionation is automatically performed to determine the proportions of inorganic, methylated and organic species.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Arsenic Urine - per 24h

Not Applicable ug/d (Ref Interval: 0.0-49.9)

Arsenic, Urine - ratio to CRT

Not Applicable ug/g CRT (Ref Interval: 0.0-29.9)

Unable to accurately calculate the creatinine normalized result due to a low per volume result.

H=High, L=Low, *=Abnormal, C=Critical

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Hours Collected	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Volume	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per volume	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per 24h	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cadmium, Urine - per volume	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cadmium, Urine - per 24h	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cadmium, Urine - ratio to CRT	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lead, Urine - per volume	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lead, Urine - per 24h	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lead, Urine - ratio to CRT	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mercury, Urine - per volume	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mercury, Urine - per 24h	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mercury, Urine - ratio to CRT	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic Urine - per volume	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic Urine - per 24h	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic, Urine - ratio to CRT	23-102-106795	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 23-102-106795
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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