

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 1/1/1984
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Heavy Metals Panel 3, Urine with Reflex to Arsenic Fractionated

ARUP test code 0099475

Hours Collected	24 hr		
Total Volume	2000 mL		
Creatinine, Urine - per volume	75 mg/dL		
Creatinine, Urine - per 24h	1500 mg/d		(Ref Interval: 1000-2500)
Lead, Urine - per volume	6.0 ug/L	H	(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.		
	See Compliance Statement B: aruplab.com/CS		
Lead, Urine - per 24h	12.0 ug/d	H	(Ref Interval: 0.0-8.1)
Lead, Urine - ratio to CRT	8.0 ug/g CRT	H	(Ref Interval: 0.0-5.0)
Mercury, Urine - per volume	20.0 ug/L	H	(Ref Interval: 0.0-5.0)

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

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.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

Mercury, Urine - per 24h	40.0 ug/d	H	(Ref Interval: 0.0-20.0)
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Mercury, Urine - ratio to CRT	26.7 ug/g CRT	H	(Ref Interval: 0.0-20.0)
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Arsenic Urine - per volume	36.0 ug/L	H	(Ref Interval: 0.0-34.9)
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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 a total arsenic concentration of 35 to 2000 ug/L, fractionation is automatically performed to determine the proportions of inorganic, methylated and organic species. It may be appropriate to request fractionation for specimens with total arsenic greater than 30 ug/gCRT despite a total arsenic concentration less than 35 ug/L. If low-level chronic poisoning is suspected, the ug/gCRT ratio may be a more sensitive indicator of arsenic exposure than the total arsenic concentration.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

Arsenic Urine - per 24h	72.0 ug/d	H	(Ref Interval: 0.0-49.9)
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Arsenic, Urine - ratio to CRT	48.0 ug/g CRT	H	(Ref Interval: 0.0-29.9)
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Arsenic, Fractionated, Urine

ARUP test code 0020734

Arsenic, Organic	10.0 ug/L
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Arsenic, Inorganic	20.0 ug/L
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Arsenic, Methylated	20.0 ug/L
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H=High, L=Low, *=Abnormal, C=Critical

INTERPRETIVE INFORMATION: Arsenic, Fractionated Urine

The ACGIH Biological Exposure Index for the sum of inorganic and methylated species of arsenic is 35 ug/L. Inorganic species of arsenic are most toxic. Methylated species arise primarily from metabolism of inorganic species but may also come from dietary sources and are of moderate toxic potential. The organic species of arsenic are considered nontoxic and arise primarily from food. The sum of the inorganic, methylated, and organic species of arsenic may be lower than the total arsenic concentration due to the presence of unidentified organic species of arsenic.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Hours Collected	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Volume	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per volume	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine - per 24h	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lead, Urine - per volume	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lead, Urine - per 24h	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lead, Urine - ratio to CRT	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mercury, Urine - per volume	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mercury, Urine - per 24h	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mercury, Urine - ratio to CRT	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic Urine - per volume	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic Urine - per 24h	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic, Urine - ratio to CRT	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic, Organic	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic, Inorganic	19-133-104553	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arsenic, Methylated	19-133-104553	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