ARUP Laboratories

500 Chipeta Way – Salt Lake City, UT 84108 (800)522-2787 - www.aruplab.com Julio C. Delgado, M.D. M.S., Director of Laboratories Patient Age/Gender: 27 years Female Printed: 15-Sep-17 11:41:53

Procedure					D
Hours Collected 24	Procedure	Result	Units	Ref Interval	
Total Volume 1800 mL 17-256-900024 13-Sep-17 1	Hours Collected	24	hr		17-256-900024 13-Sep-17 13-Sep-17 13-Sep-17
Creatinine, Urine - per volume 85 mg/dL 17-256-90024 13-Sep-17 13-					
Creatinine, Urine - per volume 85 mg/dL 17-256-90024 13-sep-17 13-	Total Volume	1800	mL		
Creatinine, Urine - per 24h 1530 mg/d [700-1,600] 17-256-900024 13-Sep-17 13-Sep-	Creatinine, Urine - per volume	85	ma/dL		
Cadmium, Urine - per volume <pre></pre>			J.		
Cadmium, Urine - per volume <pre></pre>	Creatinine, Urine - per 24h	1530	mg/d	[700-1,600]	
Cadmium, Urine - per 24h Not Applicable ug/d [0.0-3.2] 17-256-900024 13-Sep-17 13-	Cadmium Urino - por volumo	₂ 1 0	110 /T	[0 0-1 0]	
Cadmium, Urine - ratio to CRT Not Applicable ug/g CRT Lead, Urine - per volume Stormanne of the control of t	cadmidm, offine - per votame	<1.0	ug/L	[0.0-1.0]	
Cadmium, Urine - ratio to CRT Not Applicable ug/g CRT [0.0-3.2] 17-256-900024 13-Sep-17 13-Sep-17 13-Sep-17 f Lead, Urine - per volume <pre></pre>	Cadmium, Urine - per 24h	Not Applicable	ug/d	[0.0-3.2]	
Lead, Urine - per volume	Caladan Haira wati ta CDE	37 - 6 - 3 1 d 1 - 1 - 1	/ GDE	[0 0 0 0]	
Lead, Urine - per volume Continue - per volume Co	Cadmium, Urine - ratio to CRT		ug/g CRT	[0.0-3.2]	
Lead, Urine - per 24h Not Applicable ug/d [0.0-8.1] 17-256-90024 13-Sep-17					15 056 000004 12 0 15 12 0 15 12 0 15
Lead, Urine - per 24h Not Applicable ug/d [0.0-8.1] 17-256-900024 13-Sep-17 13-Sep-17 13-Sep-17 10:57:59 Lead, Urine - ratio to CRT Not Applicable ug/g CRT [0.0-1.4] 17-256-900024 13-Sep-17 13-	Lead, Urine - per volume	<5.0 H	ug/L	[0.0-1.4]	
Lead, Urine - ratio to CRT Not Applicable ug/g CRT [0.0-1.4] 17-256-90024 13-Sep-17 1	Lead. Urine - per 24h	Not Applicable	11a/d	[0.0-8.1]	
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Mercury, Urine - per volume <pre></pre>	Lead, Urine - ratio to CRT		ug/g CRT	[0.0-1.4]	
Mercury, Urine - per 24h Mot Applicable ug/d [0.0-2.9] 17-256-900024 13-Sep-17 13-Sep-17 13-Sep-17 10-Sep-17 15-Sep-17 13-Sep-17 13-Sep		f			
Mercury, Urine - per 24h Not Applicable ug/d [0.0-2.9] 17-256-900024 13-Sep-17 13-	Mercury, Urine - per volume	<2.5 H	ug/L	[0.0-1.9]	
Mercury, Urine - ratio to CRT Not Applicable ug/g CRT Arsenic Urine - per volume Not Applicable ug/g CRT	Managary Imina par 24h	Not Applianble		[0 0 0 0]	
Arsenic Urine - per volume	Mercury, Orine - per 2411	NOT APPLICABLE	ug/a	[0.0-2.9]	
Arsenic Urine - per volume <pre></pre>	Mercury, Urine - ratio to CRT	Not Applicable	ug/g CRT	[0.0-20.0]	
Arsenic Urine - per 24h Arsenic, Urine - ratio to CRT Not Applicable ug/g CRT		f			08:51:00 08:51:00 10:57:59
Arsenic Urine - per 24h Not Applicable ug/d [0.0-49.9] 17-256-900024 13-Sep-17 13-Sep-	Arsenic Urine - per volume	<10.0	uq/L	[0.0-34.9]	
Arsenic, Urine - ratio to CRT Not Applicable ug/g CRT [0.0-29.9] 17-256-900024 13-Sep-17 13-Sep-17 13-Sep-17 10-57:59	-				
Arsenic, Urine - ratio to CRT Not Applicable ug/g CRT [0.0-29.9] 17-256-900024 13-Sep-17 13-Sep-	Arsenic Urine - per 24h	Not Applicable	ug/d	[0.0-49.9]	
08:51:00 08:51:00 10:57:59	Arsenic. Urine - ratio to CRT	Not Applicable	11a/a CRT	[0.0-29.9]	
		f	,, J 01 11	,,,	08:51:00 08:51:00 10:57:59

13-Sep-17 08:51:00 Cadmium, Urine - ratio to CRT:

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

13-Sep-17 08:51:00 Lead, Urine - ratio to CRT:

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

13-Sep-17 08:51:00 Mercury, Urine - ratio to CRT:

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

13-Sep-17 08:51:00 Arsenic, Urine - ratio to CRT:

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

13-Sep-17 08:51:00 Cadmium, Urine - per volume: 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.

See Compliance Statement B: aruplab.com/CS

* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab

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Patient Age/Gender: 27 years Female Printed: 15-Sep-17 11:41:53

13-Sep-17 08:51:00 Lead, Urine - per volume: INTERPRETIVE INFORMATION: Lead, Urine

Quantification of urine excretion rates befoe 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

13-Sep-17 08:51:00 Mercury, Urine - per volume: 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

13-Sep-17 08:51:00 Arsenic Urine - per volume: 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

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