



LAB #: U200620-2055-1

SEX: Female  
DOB:

AGE: 48

CLIENT #: 32029  
DOCTOR: Michael Cheikin, MD  
Wynd Moore Rehab Association  
832 Germantown Pike 3  
Plymouth Meeting, PA 19462 U.S.A.

**Toxic Metals; Urine**

TOXIC METALS			
	RESULT µg/g creat	REFERENCE INTERVAL	WITHIN REFERENCE
Aluminum (Al)	1.9	< 35	
Antimony (Sb)	< dl	< 0.2	
Arsenic (As)	4.6	< 80	
Barium (Ba)	0.8	< 7	
Beryllium (Be)	< dl	< 1	
Bismuth (Bi)	< dl	< 4	
Cadmium (Cd)	< dl	< 1	
Cesium (Cs)	3	< 10	
Gadolinium (Gd)	0.1	< 0.8	
Lead (Pb)	0.8	< 2	
Mercury (Hg)	1.4	< 4	
Nickel (Ni)	4.8	< 10	
Palladium (Pd)	< dl	< 0.3	
Platinum (Pt)	< dl	< 0.1	
Tellurium (Te)	< dl	< 0.5	
Thallium (Tl)	0.1	< 0.5	
Thorium (Th)	< dl	< 0.03	
Tin (Sn)	1.2	< 5	
Tungsten (W)	1.4	< 0.4	
Uranium (U)	< dl	< 0.04	

TOXIC METALS		
RESULT µg/g creat	WITHIN REFERENCE	OUTSIDE REFERENCE
< dl		
< dl		
< dl		
3		
< dl		
1.5		
< dl		
4.9		
< dl		
4.1		
29		
8		
< dl		
< dl		
< dl		
< dl		
0.8		
0.7		
< dl		

URINE CREATININE			
RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD
190	30 - 225		

URINE			
RESULT mg/dL	-2SD	-1SD	MEAN
8.56			

SPECIMEN DATA			
Date Collected: 06/16/2020	pH upon receipt: Acceptable	Collection Period: timed: 6 hours	
Date Received: 06/20/2020	<dl: less than detection limit	Volume:	
Date Reported: 07/09/2020	Provoking Agent:	Provocation: PRE PROVOCATIVE	
Method: ICP-MS	Creatinine by Jaffe Method		
Results are creatinine corrected to account for urine dilution variations. Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.			

SPEI			
H upon receipt	Collection Period: timed: 6 hours		
<dl: less than	Volume:		
Provoking Agent	Provocation: POST PROVOCATIVE		
Creatinine by			
Results are creatinine corrected to account for urine dilution variations. Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.			





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Essential Elements; Urine

ESSENTIAL AND OTHER ELEMENTS				PERCENTILE					ESSENTIAL AND O1								
		RESULT/UNIT	REFERENCE INTERVAL	2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>	RESULT/UNIT	per creatinine	2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>		
Sodium	(Na)	9.2 mEq/g	45 - 200	[Bar chart showing position between 2.5th and 16th percentiles]					260 mEq/g	[Bar chart showing position between 50th and 84th percentiles]							
Potassium	(K)	73 mEq/g	20 - 110	[Bar chart showing position between 16th and 50th percentiles]					93 mEq/g	[Bar chart showing position between 50th and 84th percentiles]							
Phosphorus	(P)	1060 µg/mg	180 - 1100	[Bar chart showing position between 50th and 84th percentiles]					430 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Calcium	(Ca)	40 µg/mg	30 - 350	[Bar chart showing position between 16th and 50th percentiles]					230 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Magnesium	(Mg)	83 µg/mg	25 - 230	[Bar chart showing position between 16th and 50th percentiles]					180 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Zinc	(Zn)	0.56 µg/mg	0.1 - 1.5	[Bar chart showing position between 16th and 50th percentiles]					1.3 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Copper	(Cu)	0.011 µg/mg	0.007 - 0.06	[Bar chart showing position between 16th and 50th percentiles]					0.079 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Sulfur	(S)	440 µg/mg	275 - 1200	[Bar chart showing position between 16th and 50th percentiles]					600 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Manganese	(Mn)	0.0009 µg/mg	0.0004 - 0.007	[Bar chart showing position between 16th and 50th percentiles]					0.002 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Molybdenum	(Mo)	0.14 µg/mg	0.013 - 0.15	[Bar chart showing position between 50th and 84th percentiles]					0.076 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Boron	(B)	2.1 µg/mg	0.5 - 4	[Bar chart showing position between 50th and 84th percentiles]					3.1 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Chromium	(Cr)	< dl µg/mg	0.0003 - 0.0025	[Bar chart showing position between 2.5th and 16th percentiles]					< dl µg/mg	[Bar chart showing position between 2.5th and 16th percentiles]							
Lithium	(Li)	24 µg/mg	0.009 - 0.2	[Bar chart showing position between 50th and 84th percentiles]					61 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Selenium	(Se)	0.027 µg/mg	0.03 - 0.25	[Bar chart showing position between 16th and 50th percentiles]					0.074 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Strontium	(Sr)	0.082 µg/mg	0.045 - 0.5	[Bar chart showing position between 16th and 50th percentiles]					0.32 µg/mg	[Bar chart showing position between 50th and 84th percentiles]							
Vanadium	(V)	< dl µg/mg	0.0001 - 0.0017	[Bar chart showing position between 2.5th and 16th percentiles]					< dl µg/mg	[Bar chart showing position between 2.5th and 16th percentiles]							
				68 <sup>th</sup> 95 <sup>th</sup>									68 <sup>th</sup> 95 <sup>th</sup>				
Cobalt	(Co)	< dl µg/mg	< 0.008	[Bar chart showing position between 2.5th and 16th percentiles]					< dl µg/mg	[Bar chart showing position between 2.5th and 16th percentiles]							
Iron	(Fe)	< dl µg/mg	< 1	[Bar chart showing position between 2.5th and 16th percentiles]					< dl µg/mg	[Bar chart showing position between 2.5th and 16th percentiles]							

URINE CREATININE				PERCENTILE					URINE CRE						
		RESULT	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD	RESULT	mg/dL	-2SD	-1SD	MEAN	+1SD	+2SD
Creatinine		190	30 - 225	[Bar chart showing position between -1SD and +1SD]					8.56	[Bar chart showing position between -1SD and +1SD]					

SPECIMEN DATA				SPECIMEN			
Date Collected:	06/16/2020	pH Upon Receipt:	Acceptable	Collection Period:	timed: 6 hours	pH Upon Receipt:	Acceptable
Date Received:	06/20/2020	<dl:	less than detection limit	Volume:	<dl:	less than	Volume:
Date Reported:	07/09/2020	Provoking Agent:		Provocation:	PRE PROVOCATIVE	Provoking Agent:	IO: Provocation: POST PROVOCATIVE
Method:	ISE;Na, K Spectrophotometry; P ICP-MS; B, Ca, Cr, Co, Cu, Fe, Mg, Mn, Mo, Se, Sr, S, V, Zn Creatinine by Jaffe method						
<p>Results are creatinine corrected to account for urine dilution variations. Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.</p>							