



SEX: Male  
AGE: 25

### Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	2.2	< 7.0	
Antimony (Sb)	0.045	< 0.066	
Arsenic (As)	0.022	< 0.080	
Barium (Ba)	3.8	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.006	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.22	< 0.80	
Mercury (Hg)	0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.051	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	1.1	< 0.08	
Tin (Sn)	0.34	< 0.30	
Titanium (Ti)	0.15	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	1190	200- 750			
Magnesium (Mg)	250	25- 75			
Sodium (Na)	230	20- 180			
Potassium (K)	66	9- 80			
Copper (Cu)	58	11- 30			
Zinc (Zn)	190	130- 200			
Manganese (Mn)	0.21	0.08- 0.50			
Chromium (Cr)	0.39	0.40- 0.70			
Vanadium (V)	0.038	0.018- 0.065			
Molybdenum (Mo)	0.030	0.025- 0.060			
Boron (B)	2.3	0.40- 3.0			
Iodine (I)	1.4	0.25- 1.8			
Lithium (Li)	0.022	0.007- 0.020			
Phosphorus (P)	130	150- 220			
Selenium (Se)	0.84	0.70- 1.2			
Strontium (Sr)	6.9	0.30- 3.5			
Sulfur (S)	45100	44000- 50000			
Cobalt (Co)	0.016	0.004- 0.020			
Iron (Fe)	7.5	7.0- 16			
Germanium (Ge)	0.037	0.030- 0.040			
Rubidium (Rb)	0.071	0.011- 0.12			
Zirconium (Zr)	0.036	0.020- 0.44			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 08/22/2016		Ca/Mg	4.76
Date Received: 08/25/2016		Ca/P	9.15
Date Completed: 08/26/2016		Na/K	3.48
Methodology: ICP/MS		Zn/Cu	3.28
Sample Size: 0.202 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Glycerin			
		<b>RANGE</b>	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

## Hair Test 1214

### **What are your current symptoms and health history?**

Multiple Chemical Sensitivity for the last 5 years. I had mercury toxicity and chelated with DMPS 5-4 years ago until it was undetectable in urine provocation.

### **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)**

Age 23

### **What dental work do you currently have in place? What part of the dental clean-up have you completed?**

Permanent retainer, top and bottom. Nickel Alloy

### **What dentistry did your mother have at any time before or during pregnancy?**

Not sure. Braces at least.

### **What vaccinations have you had and when (including flu and especially travel shots)?**

Not sure, whatever's required for the USA, South America, EU.

### **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?**

Too long to list. Mostly multi vitamins, b complex.

### **What is your age, height and weight?**

25, 6'1", 155lbs

### **Other information you feel may be relevant?**

Multiple Chemical Sensitivities, Chronically low glutathione, sensitivity to thiols, poor methylation, CBS mutation

### **What is your location – city & country (so that we can learn where certain toxins are more prevalent).**

Houston, Texas, USA