



SEX: Male  
AGE: 43

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	1.0	< 7.0	
Antimony (Sb)	0.034	< 0.066	
Arsenic (As)	0.040	< 0.080	
Barium (Ba)	0.07	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.003	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.27	< 0.80	
Mercury (Hg)	0.89	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.006	< 0.060	
Nickel (Ni)	0.03	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.02	< 0.30	
Titanium (Ti)	0.33	< 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)	448	200- 750			
Magnesium (Mg)	68	25- 75			
Sodium (Na)	30	20- 180			
Potassium (K)	11	9- 80			
Copper (Cu)	12	11- 30			
Zinc (Zn)	190	130- 200			
Manganese (Mn)	0.07	0.08- 0.50			
Chromium (Cr)	0.44	0.40- 0.70			
Vanadium (V)	0.013	0.018- 0.065			
Molybdenum (Mo)	0.026	0.025- 0.060			
Boron (B)	0.29	0.40- 3.0			
Iodine (I)	0.19	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	180	150- 220			
Selenium (Se)	0.80	0.70- 1.2			
Strontium (Sr)	0.25	0.30- 3.5			
Sulfur (S)	46700	44000- 50000			
Cobalt (Co)	0.003	0.004- 0.020			
Iron (Fe)	7.1	7.0- 16			
Germanium (Ge)	0.025	0.030- 0.040			
Rubidium (Rb)	0.011	0.011- 0.12			
Zirconium (Zr)	0.037	0.020- 0.44			

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 01/01/2013	Sample Size: 0.196 g	Ca/Mg	6.59	4- 30
Date Received: 01/04/2013	Sample Type: Head	Ca/P	2.49	0.8- 8
Date Completed: 01/05/2013	Hair Color: Brown	Na/K	2.73	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	15.8	4- 20
	Shampoo: Pre11	Zn/Cd	> 999	> 800

# Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	1.0	< 7.0	
Antimony (Sb)	0.018	< 0.066	
Arsenic (As)	0.044	< 0.080	
Barium (Ba)	0.09	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.18	< 0.80	
Mercury (Hg)	0.94	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.015	< 0.060	
Nickel (Ni)	0.03	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.16	< 0.30	
Titanium (Ti)	0.51	< 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)	391	200- 750	
Magnesium (Mg)	67	25- 75	
Sodium (Na)	63	20- 180	
Potassium (K)	25	9- 80	
Copper (Cu)	43	11- 30	
Zinc (Zn)	220	130- 200	
Manganese (Mn)	0.05	0.08- 0.50	
Chromium (Cr)	0.43	0.40- 0.70	
Vanadium (V)	0.019	0.018- 0.065	
Molybdenum (Mo)	0.034	0.025- 0.060	
Boron (B)	0.60	0.40- 3.0	
Iodine (I)	5.5	0.25- 1.8	
Lithium (Li)	0.18	0.007- 0.020	
Phosphorus (P)	186	150- 220	
Selenium (Se)	0.78	0.70- 1.2	
Strontium (Sr)	0.33	0.30- 3.5	
Sulfur (S)	47800	44000- 50000	
Cobalt (Co)	0.006	0.004- 0.020	
Iron (Fe)	5.1	7.0- 16	
Germanium (Ge)	0.021	0.030- 0.040	
Rubidium (Rb)	0.034	0.011- 0.12	
Zirconium (Zr)	0.016	0.020- 0.44	

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 03/13/2015	Sample Size: 0.197 g	Ca/Mg	5.84
Date Received: 03/17/2015	Sample Type: Head	Ca/P	2.1
Date Completed: 03/18/2015	Hair Color: Brown	Na/K	2.52
Methodology: ICP/MS	Treatment:	Zn/Cu	5.12
	Shampoo:	Zn/Cd	> 999
		<b>RANGE</b>	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

## Hair Test 1077

1. URQ pain, removal of healthy GB made it worse! for a year, now back into a better place, used to be daily crying fits wanting to die. Epsom salt bath gives some relief, B vitamins, brown things, anything with any toxicity, fire up the pain as does eating just about anything. Stomach is fine, although I have seen globs of white in my throat and stomach in imaging studies that doctors have no explanation for. Slight itch on chest area where a cyst appears to be around the bottom right rib. Feet itch after eating, also that chest area itches, sometimes lower legs itch, but antifungals and no fructose/sucrose in diet seems to keep that under control, gas pain emanates up into URQ, seems like intestinal but that's been checked thoroughly via Genova CDSA and intestinal permeability test. Still, symptoms started after colonoscopy two years back. I am still treating for Candida and leaky gut via GAPS diet as a guide, have little choice. Former smoker and drinker. Just a couple of alcoholic drinks and I have more pain for days afterwards. Sometimes I am in a better place, other times not so good. It seems like I am very, very slowly getting better, but to be honest I am at a plateau. I did have an igenex 6050 test done 2/14 which was according to most LLMD highly positive.

2. Had 4 amalgams removed in 2014 improperly. Had two amalgams removed via IAOMT certified biological dentist in Pewaukee WI as well as 4 crowns 3/15. These were all old crowns and amalgams from 20+ years ago. The metallic taste in my mouth has disappeared, and it was noticeable. Blood test in 2/11/15 showed 4 mcg/L mercury in my blood. Lead in 2/11/15 blood test was <3.3 whatever that means.

3. Porcelain crowns and ceramic fillings?, biological dentist verified that metal is out of the mouth. <http://www.winaturaldentist.com/>

4. Mother had no fillings at pregnancy, but grew up next to a roadway when leaded gasoline was prevalent. She had three normal births, and likely smoked during pregnancy probably not much, she had us young, 18/20/24 years of age respectively.

5. Tetanus shot 3 years ago, flu shot 10 years ago, little to no vaccination history except childhood smallpox

6. Megafoods multivitamin, plenty of Vitamin C, Amino complex, beef bone broth made myself, lots of organic green vegetables. Magnesium bath's and sweating help the pain some.

7. 45, 5' 11" 140lb. blood type O-

8. Stopped eating fish and wheat, live in an organic hotbed area, I source very clean proteins, prior to test quite a bit of safest fish, norwegian sardines and sockeye, have since stopped eating fish. I am eating very clean, no boxed foods, we have a great co-op, all organic. For chelation I am drinking cilantro water and taking one chlorella tablet a day, just figure slow is the only way, too much controversy. I am going to see a candida specialist 5/8/15 to go ahead and get tested for candida to rule that in or out, hear metal and candida run together.

9. Madison, WI U.S.A. live and work fairly close to a highway.