

# Toxic & Essential Elements; Hair

TOXIC METALS				
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum (Al)	3.1	< 7.0		
Antimony (Sb)	0.019	< 0.050		
Arsenic (As)	< 0.01	< 0.060		
Barium (Ba)	0.74	< 2.0		
Beryllium (Be)	< 0.01	< 0.020		
Bismuth (Bi)	0.025	< 2.0		
Cadmium (Cd)	< 0.009	< 0.050		
Lead (Pb)	0.23	< 0.60		
Mercury (Hg)	0.08	< 0.80		
Platinum (Pt)	< 0.003	< 0.005		
Thallium (Tl)	< 0.001	< 0.002		
Thorium (Th)	< 0.001	< 0.002		
Uranium (U)	0.050	< 0.060		
Nickel (Ni)	0.33	< 0.30		
Silver (Ag)	1.9	< 0.15		
Tin (Sn)	1.7	< 0.30		
Titanium (Ti)	0.31	< 0.70		
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)	1310	300- 1200					
Magnesium (Mg)	270	35- 120					
Sodium (Na)	210	20- 250					
Potassium (K)	19	8- 75					
Copper (Cu)	70	11- 37					
Zinc (Zn)	160	140- 220					
Manganese (Mn)	0.38	0.08- 0.60					
Chromium (Cr)	0.35	0.40- 0.65					
Vanadium (V)	0.023	0.018- 0.065					
Molybdenum (Mo)	0.019	0.020- 0.050					
Boron (B)	0.25	0.25- 1.5					
Iodine (I)	1.7	0.25- 1.8					
Lithium (Li)	0.008	0.007- 0.020					
Phosphorus (P)	157	150- 220					
Selenium (Se)	0.66	0.55- 1.1					
Strontium (Sr)	0.97	0.50- 7.6					
Sulfur (S)	48400	44000- 50000					
Cobalt (Co)	0.11	0.005- 0.040					
Iron (Fe)	8.6	7.0- 16					
Germanium (Ge)	0.029	0.030- 0.040					
Rubidium (Rb)	0.014	0.007- 0.096					
Zirconium (Zr)	0.19	0.020- 0.42					

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 5/17/2012	Sample Size: 0.199 g	Ca/Mg	4.85	4- 30
Date Received: 5/25/2012	Sample Type: Head	Ca/P	8.34	1- 12
Date Completed: 5/28/2012	Hair Color: Brown	Na/K	11.1	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	2.29	4- 20
	Shampoo: Giovanni	Zn/Cd	> 999	> 800

## Health history for hair test 630

1. **What are your current symptoms and health history?** I have had very good health most of my life. My symptoms started in January. I had the "burning brain" sensations and burning down the back of my spine. Then my eyesight started to go.. I now have tunnel vision and I feel like everything is coming at me instead of ahead of me. My head feels like its floating all the time. I have burning in my eyes and right by my sinuses. I feel like my body is floating. I have really bad constipation and I can't digest food. I have numbness and tingling all over my body. I get burning in my ears as well.. and its hard for me to breathe. I feel like I have to force my body to breathe.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** I didn't have any wisdom teeth. I never had a root canal. I believe I had my first amalgam when I was about 12. I also had braces when I was 13 until 15.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** I have two amalgams left to be removed. I had four to begin with. I also have a few white composites.
4. **What dentistry did your mother have at any time before or during pregnancy?** I'm not sure, I just know she has a TON of silver fillings
5. **What vaccinations have you had and when (including flu and especially travel shots)?** I am up to date on all of my vaccines. I have had every one of them. I also had the flu shot last year around july when I was pregnant. I believe that set fire to the rain. I am VERY sensitive to heavy metals. and sensitive in general.
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** I did an herbal blend of cilantro for a little while. I was on fish oil, and a lot of different natural remedies. Lithium as well.
7. **What is your age, height and weight?** I am 5' 9 26 years old and weigh about 180
8. **Other information you feel may be relevant?** None, that I know of.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Janesville, Wisconsin USA