

Toxic & Essential Elements; Hair

		TOXIC METALS		PERCENTILE	
		RESULT µg/g	REFERENCE INTERVAL	68 th	95 th
Aluminum	(Al)	3.8	< 7.0		
Antimony	(Sb)	0.041	< 0.066		
Arsenic	(As)	0.13	< 0.080		
Barium	(Ba)	0.25	< 1.0		
Beryllium	(Be)	< 0.01	< 0.020		
Bismuth	(Bi)	0.053	< 2.0		
Cadmium	(Cd)	0.078	< 0.065		
Lead	(Pb)	1.3	< 0.80		
Mercury	(Hg)	0.49	< 0.80		
Platinum	(Pt)	< 0.003	< 0.005		
Thallium	(Tl)	< 0.001	< 0.002		
Thorium	(Th)	0.001	< 0.002		
Uranium	(U)	0.077	< 0.050		
Nickel	(Ni)	0.09	< 0.20		
Silver	(Ag)	0.06	< 0.08		
Tin	(Sn)	0.16	< 0.30		
Titanium	(Ti)	0.61	< 0.60		
Total Toxic Representation					

		ESSENTIAL AND OTHER ELEMENTS		PERCENTILE	
		RESULT µg/g	REFERENCE INTERVAL	2.5 th	16 th 50 th 84 th 97.5 th
Calcium	(Ca)	239	200- 750		
Magnesium	(Mg)	13	25- 75		
Sodium	(Na)	100	20- 180		
Potassium	(K)	33	9- 80		
Copper	(Cu)	18	11- 30		
Zinc	(Zn)	130	130- 200		
Manganese	(Mn)	0.15	0.08- 0.50		
Chromium	(Cr)	0.55	0.40- 0.70		
Vanadium	(V)	0.089	0.018- 0.065		
Molybdenum	(Mo)	0.043	0.025- 0.060		
Boron	(B)	1.0	0.40- 3.0		
Iodine	(I)	4.0	0.25- 1.8		
Lithium	(Li)	0.007	0.007- 0.020		
Phosphorus	(P)	164	150- 220		
Selenium	(Se)	1.1	0.70- 1.2		
Strontium	(Sr)	0.82	0.30- 3.5		
Sulfur	(S)	44700	44000- 50000		
Cobalt	(Co)	0.004	0.004- 0.020		
Iron	(Fe)	9.2	7.0- 16		
Germanium	(Ge)	0.033	0.030- 0.040		
Rubidium	(Rb)	0.043	0.011- 0.12		
Zirconium	(Zr)	0.21	0.020- 0.44		

COMMENTS:

Date Collected: 9/2/2011
Date Received: 9/17/2011
Date Completed: 9/21/2011
Methodology: ICP/MS

Sample Size: 0.195 g
Sample Type: Head
Hair Color: Brown
Treatment:
Shampoo:

RATIOS		
ELEMENTS	RATIOS	RANGE
Ca/Mg	18.4	4- 30
Ca/P	1.45	0.8- 8
Na/K	3.03	0.5- 10
Zn/Cu	7.22	4- 20
Zn/Cd	> 989	> 800

Health history for hair test 916

- **What are your current symptoms and health history?** Cognitive and emotional dysfunction, general fatigue, adrenal fatigue, Hashimoto's thyroiditis, low body temps, vision problems, weakness, joint pain. Many other symptoms, but those are the main ones.
- **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** Wisdom teeth extracted in 1999. Sole root canal placed in ~1995. There were 5 amalgams in total, all placed between 1990-1998.
- **What dental work do you currently have in place?** What part of the dental clean-up have you completed? The root canal is still in place. All amalgams replaced with Hg-free materials using a safe, Hg-free protocol. One tooth containing a large Hg filling was extracted.
- **What dentistry did your mother have at any time before or during pregnancy?** No idea, but likely.
- **What vaccinations have you had and when (including flu and especially travel shots)?** Just the typical mandatory vaccines. No flu shots.
- **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Lots of iodine.
- **What is your age, height and weight?** 31y.o, 5'11", 145lb at time of test but have recovered to the current 165lb since fillings were removed. Ideal weight is ~190lb
- **Other information you feel may be relevant?** No.
- **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** SLC, Utah, USA