

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	4.4	< 7.0			
Antimony	(Sb)	0.041	< 0.066			
Arsenic	(As)	0.088	< 0.080			
Barium	(Ba)	0.77	< 1.0			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	0.005	< 2.0	•		
Cadmium	(Cd)	0.41	< 0.065			
Lead	(Pb)	0.87	< 0.80			
Mercury	(Hg)	0.12	< 0.80			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	< 0.001	< 0.002			
Uranium	(U)	0.008	< 0.060			
Nickel	(Ni)	0.90	< 0.20			
Silver	(Ag)	0.04	< 0.08			
Tin	(Sn)	0.07	< 0.30			
Titanium	(Ti)	0.20	< 0.60			
Total Toxic Represent	ation					

TOTAL TOXIO RESPISOSOFICATION							
ESSENTIAL AND OTHER ELEMENTS							
		RESULT	REFERENCE	PERCENTILE			
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th			
Calcium	(Ca)	625	200- 750				
Magnesium	(Mg)	220	25- 75				
Sodium	(Na)	770	20- 180				
Potassium	(K)	29	9- 80				
Copper	(Cu)	13	11- 30				
Zinc	(Zn)	180	130- 200				
Manganese	(Mn)	3.0	0.08- 0.50				
Chromium	(Cr)	3.3	0.40- 0.70				
Vanadium	(V)	0.074	0.018- 0.065				
Molybdenum	(Mo)	0.028	0.025- 0.060				
Boron	(B)	4.6	0.40- 3.0				
lodine	(I)	0.35	0.25- 1.8				
Lithium	(Li)	0.029	0.007- 0.020				
Phosphorus	(P)	155	150- 220				
Selenium	(Se)	1.1	0.70- 1.2				
Strontium	(Sr)	3.5	0.30- 3.5				
Sulfur	(S)	45600	44000- 50000				
Cobalt	(Co)	0.026	0.004- 0.020				
Iron	(Fe)	9.3	7.0- 16				
Germanium	(Ge)	0.033	0.030- 0.040				
Rubidium	(Rb)	0.012	0.011- 0.12				
Zirconium	(Zr)	0.037	0.020- 0.44				

SPECIMEN DATA			RATIOS		
COMMENTS: Results checked.			RATIOS	RANGE	
		Ca/Mg	2.84	4- 30	
Date Collected: 2/20/2011	Sample Size: 0.2 g	Ca/P	4.03	0.8- 8	
Date Received: 2/28/2012	Sample Type: Head	Na/K	26.6	0.5- 10	
Date Completed: 3/2/2012	Hair Color: Brown	Zn/Cu	13.8	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	439	> 800	
	Shampoo: Bar Soap				

Health history for hair test 600

- 1. What are your current symptoms and health history? Chronic fatigue, depression, brain fog, anxiety, poor intestinal balance, candida, adrenal fatigue
- 2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)

 Quite a few amalgam fillings since childhood. With time, some were unintentionally replaced with composite. June 2011 had 3 remaining amalgams replaced due to health concerns. Wisdom teeth removed at age 19, 16 years ago. 3 porcelin crowns put in at different times, I believe at least 10+ years ago. Also had braces in middle school.
- 3. What dental work do you currently have in place? What part of the dental clean-up have you completed?

 Still have 3 crowns in place. I am 95% sure 1 does not have amalgam. The other 2, I have no idea. I plan to have all three replaced, even though it will cost \$3600...
- 4. What dentistry did your mother have at any time before or during pregnancy?

Not sure, possibe amalgams.

5. What vaccinations have you had and when (including flu and especially travel shots)?

The basics as an infant. Had Hep B when I was 24, right before I came down with mono and began to get chronically fatigued. Also had several tetanus shots(some I am sure before the due date, because of not remembering when I last had one) Travel shots such as hep A, typhoid, ??

- **6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?**I believe I laid off supplements around the time of the hair test for the most part. I probably still took probiotics and Metformin for diabetes. At various times in the past 3-6 months, I took probiotics, herbal adrenal supps, fish oil-3/day,zinc-50mg, selenium-200/day, magnesium-400mg/day??, vitamin D-5000-10000/day, folate,B3,6,12(??? on dosage for all B's),and C-3000mg/day. Can't remember if there was anything else.
- 7. What is your age, height and weight? 35 Y/O, 175 lbs.
 - 8. Other information you feel may be relevant?

When I took test, I had just gone surfing in the ocean. Not sure if that would play a role in my high sodium results. Tested for parasites a year ago. Did some treatment for them, not sure if I still have them. Lots of bad bacteria, and not much good bacteria, despite taking probiotics for quite some time.

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

Northern, California, USA. (I have lived in other states and countries)