



U.S.A.

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	13	< 7.0	
Antimony (Sb)	0.015	< 0.066	
Arsenic (As)	0.035	< 0.080	
Barium (Ba)	2.2	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.038	< 2.0	
Cadmium (Cd)	0.010	< 0.065	
Lead (Pb)	0.09	< 0.80	
Mercury (Hg)	2.6	< 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)	0.15	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.10	< 0.30	
Titanium (Ti)	0.21	< 0.60	
Total Toxic Representation			
ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)	1200	200- 750	
Magnesium (Mg)	76	25- 75	
Sodium (Na)	78	20- 180	
Potassium (K)	15	9- 80	
Copper (Cu)	19	11- 30	
Zinc (Zn)	240	130- 200	
Manganese (Mn)	0.29	0.08- 0.50	
Chromium (Cr)	0.42	0.40- 0.70	
Vanadium (V)	0.026	0.018- 0.065	
Molybdenum (Mo)	0.028	0.025- 0.060	
Boron (B)	1.8	0.40- 3.0	
Iodine (I)	28	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	153	150- 220	
Selenium (Se)	31	0.70- 1.2	
Strontium (Sr)	4.6	0.30- 3.5	
Sulfur (S)	44600	44000- 50000	
Cobalt (Co)	0.016	0.004- 0.020	
Iron (Fe)	7.6	7.0- 16	
Germanium (Ge)	0.028	0.030- 0.040	
Rubidium (Rb)	0.035	0.011- 0.12	
Zirconium (Zr)	0.098	0.020- 0.44	
SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
		Ca/Mg	15.8
		Ca/P	7.84
		Na/K	5.2
		Zn/Cu	12.6
Zn/Cd	> 999		
		RANGE	
		Ca/Mg	4- 30
		Ca/P	0.8- 8
		Na/K	0.5- 10
		Zn/Cu	4- 20
		Zn/Cd	> 800

Hair Test 1072

1. **What are your current symptoms and health history?** Hair loss, digestive issues, thyroid issue, constant fatigue
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** Wisdom teeth removed 2 years ago. Root canal placed two years ago. Braces done 10 years ago. No amalgam history.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** Composite fillings, root canal.
4. **What dentistry did your mother have at any time before or during pregnancy?** Not sure
5. **What vaccinations have you had and when (including flu and especially travel shots)?** Hep B, C, flu shots 6 years ago.
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Vitamin C, D, E, coq10, L-lysine, zinc carnosine, MSM, anti-parasites (Black walnut hull tincture), soil based probiotics, probiotics, biotin, vitamin B complex, zinc gluconate, lactoferrin, NAC, reduced glutathione, selenium, multivitamin, chlorophyll, magnesium, silica, calcium, cranberry extract, kidney cleanse, pqq, betaine HCL, digestive enzymes
7. **What is your age, height and weight?** 26, 170 lb, 6'1"
8. **Other information you feel may be relevant?** Ate 4 canned tunas per week for more than 5 years, dropped it for three years now. Two major surgeries within past two years. Parasite cleanse and candida cleanse were done pretty recently. Not sure where barium or aluminum came from.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Atlanta, GA, USA