

Toxic & Essential Elements; Hair

TOXIC METALS					
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
				68 th	95 th
Aluminum (Al)		1.4	< 7.0		
Antimony (Sb)		< 0.01	< 0.050		
Arsenic (As)		0.036	< 0.060		
Barium (Ba)		0.27	< 2.0		
Beryllium (Be)		< 0.01	< 0.020		
Bismuth (Bi)		0.018	< 2.0		
Cadmium (Cd)		< 0.009	< 0.050		
Lead (Pb)		0.10	< 0.60		
Mercury (Hg)		0.29	< 0.80		
Platinum (Pt)		< 0.003	< 0.005		
Thallium (Tl)		< 0.001	< 0.002		
Thorium (Th)		0.003	< 0.002		
Uranium (U)		0.19	< 0.060		
Nickel (Ni)		0.19	< 0.30		
Silver (Ag)		< 0.006	< 0.15		
Tin (Sn)		0.03	< 0.30		
Titanium (Ti)		0.32	< 0.70		
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)		450	300 - 1200					
Magnesium (Mg)		77	35 - 120					
Sodium (Na)		24	20 - 250					
Potassium (K)		3	8 - 75					
Copper (Cu)		13	11 - 37					
Zinc (Zn)		190	140 - 220					
Manganese (Mn)		1.0	0.08 - 0.60					
Chromium (Cr)		0.41	0.40 - 0.65					
Vanadium (V)		0.12	0.018 - 0.065					
Molybdenum (Mo)		0.025	0.020 - 0.050					
Boron (B)		0.36	0.25 - 1.5					
Iodine (I)		0.82	0.25 - 1.8					
Lithium (Li)		0.035	0.007 - 0.020					
Phosphorus (P)		167	150 - 220					
Selenium (Se)		0.77	0.55 - 1.1					
Strontium (Sr)		1.3	0.50 - 7.6					
Sulfur (S)		47100	44000 - 50000					
Cobalt (Co)		0.003	0.005 - 0.040					
Iron (Fe)		7.9	7.0 - 16					
Germanium (Ge)		0.033	0.030 - 0.040					
Rubidium (Rb)		0.005	0.007 - 0.096					
Zirconium (Zr)		0.018	0.020 - 0.42					

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 09/24/2015		Ca/Mg	5.84
Date Received: 09/28/2015		Ca/P	2.69
Date Completed: 10/01/2015		Na/K	8
Methodology: ICP/MS		Zn/Cu	14.6
Sample Size: 0.204 g		Zn/Cd	> 999
Sample Type: Head			
Hair Color: Brown			
Treatment: Dye			
Shampoo: Regular			
		RANGE	
			4 - 30
			1 - 12
			0.5 - 10
			4 - 20
			> 800

- **What are your current symptoms and health history?**

90% of symptoms listed in AI book

- **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)**

First amalgam younger than 10 years of age, 2 molar extractions, first root canal in the 20's, braces in the 20s

- **What dental work do you currently have in place? What part of the dental clean-up have you completed?**

5 root canals, 12+ mercury fillings

- **What dentistry did your mother have at any time before or during pregnancy?**

Very very bad, lots of decayed teeth

- **What vaccinations have you had and when (including flu and especially travel shots)?**

All childhood vaccinations; no flu, no travel shots

- **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?**

Vit d3, fish oil

- **What is your age, height and weight?**

42, 5'6", 108 lbs

- **Other information you feel may be relevant?**

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

New York, NY