



SEX: Female  
AGE: 40

**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	1.4	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.025	< 0.060	
Barium (Ba)	0.76	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.007	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.32	< 0.60	
Mercury (Hg)	5.3	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.37	< 0.060	
Nickel (Ni)	0.06	< 0.30	
Silver (Ag)	0.01	< 0.15	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.25	< 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)	1020	300- 1200			
Magnesium (Mg)	110	35- 120			
Sodium (Na)	28	20- 250			
Potassium (K)	< 3	8- 75			
Copper (Cu)	71	11- 37			
Zinc (Zn)	190	140- 220			
Manganese (Mn)	0.06	0.08- 0.60			
Chromium (Cr)	0.28	0.40- 0.65			
Vanadium (V)	0.026	0.018- 0.065			
Molybdenum (Mo)	0.031	0.020- 0.050			
Boron (B)	0.45	0.25- 1.5			
Iodine (I)	4.1	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	146	150- 220			
Selenium (Se)	0.58	0.55- 1.1			
Strontium (Sr)	3.5	0.50- 7.6			
Sulfur (S)	47300	44000- 50000			
Cobalt (Co)	0.017	0.005- 0.040			
Iron (Fe)	6.2	7.0- 16			
Germanium (Ge)	0.028	0.030- 0.040			
Rubidium (Rb)	0.004	0.007- 0.096			
Zirconium (Zr)	0.020	0.020- 0.42			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		ELEMENTS	RATIOS
Date Collected: 07/19/2014	Sample Size: 0.199 g	Ca/Mg	9.27
Date Received: 07/23/2014	Sample Type: Head	Ca/P	6.99
Date Completed: 07/24/2014	Hair Color: Brown	Na/K	9.33
Methodology: ICP/MS	Treatment:	Zn/Cu	2.68
	Shampoo: Organix	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

## **Health history for hair test 985**

- **What are your current symptoms and health history?** asymptomatic up to 5/5- then presented with severe insomnia...underwent challenge test and have had all sorts of things- tremor, balance problems, etc. associated with mercury toxicity.
- **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** wisdom teeth removed in 2009- no extractions or root canal, braces, first amalgams placed at 5-6 years old
- **What dental work do you currently have in place? What part of the dental clean-up have you completed?** four amalgams removed in 2012, no crowns
- **What dentistry did your mother have at any time before or during pregnancy?** four amalgams for approx. 20 years before I was born
- **What vaccinations have you had and when (including flu and especially travel shots)?** small pox, tb, measles,
- **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** vitamin C 1g per day, magnesium 900mg, zinc 50mg, Vit E 400IU, Digestive enzymes 500 mg, Betaine HCL 600mg, Adrenal cortex 100mg, ativan 1.0mg as needed for sleep, Seroquel 200mg
- **What is your age, height and weight?** 40, 5'2", 103 lbs.
- **Other information you feel may be relevant?** I ate a lot of fish and sushi and experimented with inappropriate exercise/diet regimes.
- **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Living in Santa Monica, CA