



SEX: Female
AGE: 37

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.0	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.029	< 0.060	
Barium (Ba)	0.13	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.054	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.04	< 0.60	
Mercury (Hg)	0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.016	< 0.060	
Nickel (Ni)	0.03	< 0.30	
Silver (Ag)	0.01	< 0.15	
Tin (Sn)	0.40	< 0.30	
Titanium (Ti)	0.43	< 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)	444	300- 1200			
Magnesium (Mg)	67	35- 120			
Sodium (Na)	9	20- 250			
Potassium (K)	4	8- 75			
Copper (Cu)	12	11- 37			
Zinc (Zn)	250	140- 220			
Manganese (Mn)	0.04	0.08- 0.60			
Chromium (Cr)	0.36	0.40- 0.65			
Vanadium (V)	0.026	0.018- 0.065			
Molybdenum (Mo)	0.053	0.020- 0.050			
Boron (B)	0.42	0.25- 1.5			
Iodine (I)	3.0	0.25- 1.8			
Lithium (Li)	0.012	0.007- 0.020			
Phosphorus (P)	203	150- 220			
Selenium (Se)	0.79	0.55- 1.1			
Strontium (Sr)	11	0.50- 7.6			
Sulfur (S)	48000	44000- 50000			
Cobalt (Co)	0.003	0.005- 0.040			
Iron (Fe)	7.9	7.0- 16			
Germanium (Ge)	0.031	0.030- 0.040			
Rubidium (Rb)	< 0.003	0.007- 0.096			
Zirconium (Zr)	0.11	0.020- 0.42			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 07/10/2014	Sample Size: 0.197 g	Ca/Mg	6.63	4- 30
Date Received: 07/14/2014	Sample Type: Head	Ca/P	2.19	1- 12
Date Completed: 07/16/2014	Hair Color: Brown	Na/K	2.25	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	20.8	4- 20
	Shampoo: Kenra	Zn/Cd	> 999	> 800

Health history for hair test 1001

1. My current symptoms are fatigue, headaches, tender scalp, tingling in hands and feet, coated tongue, nausea, constipation, adrenal fatigue, thyroid levels are on the lower end, short term memory loss, myoclonus jerks, blurry vision, weight loss, loss of appetite, anxiety, depression, panic attacks, insomnia, amenorrhea, sweat at night, heat intolerance, balance off, coordination, writing is difficult, sensitivity to gluten. The only health history I have is mild mitral valve prolapse without regurgitation.

2. Wisdom teeth removed 2000. First amalgams placed in early childhood. Had silver amalgam placed in 2004 and 2012. Removal of silver fillings (not safely) in 2011 and onlays placed and one amalgam filling placed. Have a total of five amalgams. Two of the teeth with amalgams are cracked.

3. I had all five amalgams removed last week and this week. In a mercury safe method.

4. During pregnancy my mother had four silver fillings placed because her teeth were crumbling during pregnancy.

5. I had my childhood vaccinations, Hep B. in 1998 & 2005. Last flu shot in 1998 during nursing school.

6. Celexa, Klonopin, Ferrous Sulfate, K-dur, Multi-vitamin

7. I am 5'8" and 148. Used to weigh 164.