



PATIENT: Number 702
 SEX: Female
 AGE: 30

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	8.4	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.023	< 0.060	
Barium (Ba)	0.12	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.087	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.06	< 0.60	
Mercury (Hg)	0.29	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.25	< 0.060	
Nickel (Ni)	0.03	< 0.30	
Silver (Ag)	0.10	< 0.15	
Tin (Sn)	0.03	< 0.30	
Titanium (Ti)	0.30	< 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)	158	300- 1200			
Magnesium (Mg)	31	35- 120			
Sodium (Na)	310	20- 250			
Potassium (K)	6	8- 75			
Copper (Cu)	33	11- 37			
Zinc (Zn)	190	140- 220			
Manganese (Mn)	0.07	0.08- 0.60			
Chromium (Cr)	0.35	0.40- 0.65			
Vanadium (V)	0.032	0.018- 0.065			
Molybdenum (Mo)	0.031	0.020- 0.050			
Boron (B)	0.31	0.25- 1.5			
Iodine (I)	0.16	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	159	150- 220			
Selenium (Se)	0.62	0.55- 1.1			
Strontium (Sr)	0.55	0.50- 7.6			
Sulfur (S)	47900	44000- 50000			
Cobalt (Co)	0.008	0.005- 0.040			
Iron (Fe)	4.9	7.0- 16			
Germanium (Ge)	0.025	0.030- 0.040			
Rubidium (Rb)	0.004	0.007- 0.096			
Zirconium (Zr)	0.022	0.020- 0.42			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 12/14/2012		Ca/Mg	5.1
Date Received: 12/18/2012		Ca/P	0.994
Date Completed: 12/21/2012		Na/K	51.7
Methodology: ICP/MS		Zn/Cu	5.76
Sample Size: 0.201 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Red	Treatment:		
Shampoo: Nexus			
		RANGE	
		4- 30	
		1- 12	
		0.5- 10	
		4- 20	
		> 800	

Health history for hair test 702

1. **What are your current symptoms and health history?** Anxiety, depression, mood swings, PCOS (polycystic ovary syndrome), very emotional and sensitive. I got sick very rarely, but I always have been emotional.

2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** Wisdom teeth removed (all 4) in 2005. I was put to sleep for 30 minutes. 2 adult teeth extracted in my teens. I have one root canal, don't remember when exactly it was done, but most likely it was in my teens. I had my braces for 1 year – 2006-2007. I used to have amalgams, but they were removed a long time ago, but don't remember exactly when, may be in high school.

3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** I have a crown (porcelain, glass) over my root canal. I also have many composites.

4. **What dentistry did your mother have at any time before or during pregnancy?** I don't know.

5. **What vaccinations have you had and when (including flu and especially travel shots)?** When I was a kid my mom refused to vaccinate me (it was back in the 80's, but I did get some shots, but not that many). I also had to get shots for traveling to the US in 2004 (don't remember the names of the shots) and unfortunately I got flu shots in 2008 and 2009. I did not receive any shots during my pregnancy.

6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** At the time of the test I was only taking vit D 3000 units and adrenal support – 434 mg of proprietary blend (bovine adrenal) and carrot root.

7. **What is your age, height and weight?** 30 years old, Female, 5'4", 125 lbs.

8. **Other information you feel may be relevant?** I wear a retainer at night for my top teeth and I have a permanent retainer on my bottom teeth to keep them straight.

9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Grew up in Eastern Europe, since 2005 living in Bay Area, CA.