



SEX: Female
AGE: 18

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	6.1	< 7.0	
Antimony (Sb)	0.032	< 0.050	
Arsenic (As)	0.028	< 0.060	
Barium (Ba)	0.99	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.061	< 2.0	
Cadmium (Cd)	0.010	< 0.050	
Lead (Pb)	0.12	< 0.60	
Mercury (Hg)	0.23	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.32	< 0.060	
Nickel (Ni)	0.12	< 0.30	
Silver (Ag)	0.05	< 0.15	
Tin (Sn)	0.11	< 0.30	
Titanium (Ti)	1.2	< 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)	1080	300- 1200			
Magnesium (Mg)	59	35- 120			
Sodium (Na)	31	20- 250			
Potassium (K)	140	8- 75			
Copper (Cu)	14	11- 37			
Zinc (Zn)	200	140- 220			
Manganese (Mn)	0.10	0.08- 0.60			
Chromium (Cr)	0.35	0.40- 0.65			
Vanadium (V)	0.064	0.018- 0.065			
Molybdenum (Mo)	0.035	0.020- 0.050			
Boron (B)	0.52	0.25- 1.5			
Iodine (I)	1.7	0.25- 1.8			
Lithium (Li)	0.010	0.007- 0.020			
Phosphorus (P)	145	150- 220			
Selenium (Se)	0.83	0.55- 1.1			
Strontium (Sr)	4.3	0.50- 7.6			
Sulfur (S)	48100	44000- 50000			
Cobalt (Co)	0.007	0.005- 0.040			
Iron (Fe)	8.3	7.0- 16			
Germanium (Ge)	0.032	0.030- 0.040			
Rubidium (Rb)	0.022	0.007- 0.096			
Zirconium (Zr)	0.72	0.020- 0.42			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 05/07/2014	Sample Size: 0.199 g	Ca/Mg	18.3
Date Received: 05/19/2014	Sample Type: Head	Ca/P	7.45
Date Completed: 05/22/2014	Hair Color: Brown	Na/K	0.221
Methodology: ICP/MS	Treatment:	Zn/Cu	14.3
	Shampoo: Herbal Essence	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 964

What are your current symptoms and health history?

Ulcerative Colitis, severe depression, anxiety, panic attacks, social anxiety, daily episodes of depersonalization and derealization, self harm, constipation, difficulty concentrating and remembering, insomnia, episodes of paranoia, history of brief anorexia

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

The only dental work she has had is regular checkups and sealants. Braces for 2 years.

What part of the dental clean-up have you completed?

Not applicable.

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

3 amalgams 1 root canal

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

All the usual. Symptoms started after the 3 HPV vaccinations

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

Low dose birth control pills and Tramadol for anxiety

What is your age, height and weight?

18 years old, 5' 11", 135 lbs

Other information you feel may be relevant?

She is an artist so she had daily exposure to paints. When she had her first ulcerative colitis flare we were remodeling our old house which stirred up plenty of lead paint. Mold was also discovered. Although we temporarily moved out of our house during the reconstruction we lived in an apartment that was directly over the construction site for a metro train.

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

Pasadena, CA. USA