



SEX: Female
AGE: 13

2/10/14

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.7	< 8.0	
Antimony (Sb)	0.011	< 0.066	
Arsenic (As)	0.033	< 0.060	
Barium (Ba)	0.38	< 1.5	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.060	
Lead (Pb)	0.02	< 0.60	
Mercury (Hg)	0.25	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.009	< 0.060	
Nickel (Ni)	0.16	< 0.30	
Silver (Ag)	0.01	< 0.18	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.25	< 0.60	
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)	341	350- 1000	
Magnesium (Mg)	29	35- 120	
Sodium (Na)	14	18- 180	
Potassium (K)	7	8- 75	
Copper (Cu)	14	11- 37	
Zinc (Zn)	200	150- 230	
Manganese (Mn)	0.16	0.08- 0.60	
Chromium (Cr)	0.34	0.40- 0.65	
Vanadium (V)	0.032	0.020- 0.075	
Molybdenum (Mo)	0.028	0.025- 0.060	
Boron (B)	2.6	0.20- 1.2	
Iodine (I)	0.28	0.25- 1.3	
Lithium (Li)	0.004	0.007- 0.020	
Phosphorus (P)	170	150- 220	
Selenium (Se)	0.88	0.70- 1.1	
Strontium (Sr)	0.59	0.85- 6.2	
Sulfur (S)	42100	44000- 50000	
Cobalt (Co)	0.005	0.005- 0.040	
Iron (Fe)	9.3	7.0- 16	
Germanium (Ge)	0.028	0.031- 0.040	
Rubidium (Rb)	0.010	0.005- 0.060	
Zirconium (Zr)	0.077	0.025- 0.50	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 08/20/2014	Sample Size: 0.124 g	Ca/Mg	11.8
Date Received: 09/11/2014	Sample Type: Head	Ca/P	2.01
Date Completed: 09/12/2014	Hair Color: Black	Na/K	2
Methodology: ICP/MS	Treatment:	Zn/Cu	14.3
	Shampoo: Andalou	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

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History for hair test 1136

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

Diabetes, Hashi, Gut Dysbiosis, Leaky gut, mercury toxicity, copper dysregulation, Lyme disease, co-infections of Lyme, adrenal insufficiency, mineral & vitamin deficiencies, EMF sensitivities.

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

N/A

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

N/A

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

4 amalgam fillings placed around age 8, single bi cuspid extraction and braces at age 13, wisdom teeth pulled at age 20, 2 Root canals at age 21.

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

All U.S. required vaccination from birth until 14 yrs of age. This does not include Gardasil vaccination. Flu shots from 3 years of age until 6 years of age.

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

Armour thyroid was taken at the time of test. I do not recall the dose. Lantus and Novolog Insulin doses varied based on need

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

14 1/2 years of age, 5 feet 2 in, 100 pds

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

None

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

at the time of the test Clarksburg, Md