

# Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	13	< 8.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.037	< 0.080	
Barium (Ba)	0.08	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.041	< 2.0	
Cadmium (Cd)	0.017	< 0.070	
Lead (Pb)	0.49	< 1.0	
Mercury (Hg)	0.53	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.038	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	0.03	< 0.14	
Tin (Sn)	0.09	< 0.30	
Titanium (Ti)	0.22	< 0.70	
Total Toxic Representation			

*A1298C caps*  
*Most Away*  
*EDTA soap in shower*  
*Tiny sprinkle*  
*wasabi*  
*is you like*

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)	160	160- 500	
Magnesium (Mg)	31	12- 50	
Sodium (Na)	35	20- 200	
Potassium (K)	32	12- 140	
Copper (Cu)	16	11- 32	
Zinc (Zn)	190	110- 190	
Manganese (Mn)	0.05	0.08- 0.50	
Chromium (Cr)	0.42	0.40- 0.70	
Vanadium (V)	0.16	0.025- 0.10	
Molybdenum (Mo)	0.026	0.040- 0.090	
Boron (B)	0.67	0.50- 3.5	
Iodine (I)	0.68	0.25- 1.3	
Lithium (Li)	0.005	0.007- 0.020	
Phosphorus (P)	143	150- 220	
Selenium (Se)	0.55	0.70- 1.1	
Strontium (Sr)	0.52	0.21- 2.1	
Sulfur (S)	49800	44000- 51000	
Cobalt (Co)	0.005	0.004- 0.020	
Iron (Fe)	6.4	7.0- 16	
Germanium (Ge)	0.030	0.030- 0.040	
Rubidium (Rb)	0.037	0.008- 0.080	
Zirconium (Zr)	0.028	0.060- 0.70	

*Inc. Mg*  
*gluc chond pla*  
*Need more molyb. support*  
*ATP*  
*Be Cd m spray*  
*Most Away*  
*+ Blood Bor*  
*or MTR cap*  
*sprinkle*  
*or Molyb. cap*

COMMENTS:	SPECIMEN DATA		RATIOS		
	ELEMENTS	RATIOS	RANGE		
Date Collected: 05/04/2013	Sample Size: 0.195 g	Ca/Mg	5.16	4- 30	
Date Received: 05/10/2013	Sample Type: Head	Ca/P	1.12	0.8- 8	
Date Completed: 05/13/2013	Hair Color: Blond	Na/K	1.09	0.5- 10	
Methodology: ICP/MS	Treatment:	Zn/Cu	11.9	4- 20	
	Shampoo: Mineral Fusion	Zn/Cd	> 999	> 800	

1. What are your current symptoms and health history?

Mood swings, ADHD, inability to calm down when upset, disorganized, uncoordinated, insomnia, 8 months of colic as an infant which was due to undiagnosed reflux, insomnia, and left arm broken twice last year. Prior to GAPS – GI discomfort, diarrhea, and very stinky gas.

2. Dental history.

No dental work/fillings.

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

None, but her mother had a mouthful of amalgam, and my mother has apparent mercury toxicity.

4. What vaccinations have you had?

Standard mandatory childhood vaccinations, but taken slowly, individually and late. A few flu shots.

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

Biopure Core, Vit d, probiotic, shark liver oil.

6. What is your age, height and weight?

12 years old (11 at time of test), 5'3", 90 lbs.

7. Other information you feel may be relevant?

What is your location – city & country.

Honolulu, HI. My mother's hair test looks very similar to mine.