



SEX: Male
AGE: 38

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.7	< 7.0	
Antimony (Sb)	0.021	< 0.066	
Arsenic (As)	0.032	< 0.080	
Barium (Ba)	0.46	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.024	< 2.0	
Cadmium (Cd)	0.009	< 0.065	
Lead (Pb)	0.21	< 0.80	
Mercury (Hg)	0.56	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.004	< 0.060	
Nickel (Ni)	0.24	< 0.20	
Silver (Ag)	0.03	< 0.08	
Tin (Sn)	0.11	< 0.30	
Titanium (Ti)	0.29	< 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)	378	200- 750			
Magnesium (Mg)	36	25- 75			
Sodium (Na)	38	20- 180			
Potassium (K)	13	9- 80			
Copper (Cu)	8.1	11- 30			
Zinc (Zn)	410	130- 200			
Manganese (Mn)	0.09	0.08- 0.50			
Chromium (Cr)	0.36	0.40- 0.70			
Vanadium (V)	0.018	0.018- 0.065			
Molybdenum (Mo)	0.031	0.025- 0.060			
Boron (B)	0.63	0.40- 3.0			
Iodine (I)	0.19	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	131	150- 220			
Selenium (Se)	0.79	0.70- 1.2			
Strontium (Sr)	0.84	0.30- 3.5			
Sulfur (S)	45000	44000- 50000			
Cobalt (Co)	0.009	0.004- 0.020			
Iron (Fe)	6.9	7.0- 16			
Germanium (Ge)	0.035	0.030- 0.040			
Rubidium (Rb)	0.016	0.011- 0.12			
Zirconium (Zr)	0.36	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 01/03/2015		Ca/Mg	10.5
Date Received: 01/12/2015		Ca/P	2.89
Date Completed: 01/14/2015		Na/K	2.92
Methodology: ICP/MS		Zn/Cu	50.6
Sample Size: 0.201 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Black	Treatment:		
Shampoo: Hs			
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Health history for hair test 1048

- 1) What are your current symptoms and health history? lower back pain, shortness of breath, trouble sleeping, anxiety,
- 2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...) no amalgams
- 3) What dental work do you currently have in place? What part of the dental cleanup have you completed? regular cleanings
- 4) What dentistry did your mother have at any time before or during pregnancy? don't know
- 5) What vaccinations have you had and when (including flu and especially travel shots)? regular scheduled vaccines in the late 70's early 80's
- 6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken. none
- 7) Other information you feel may be relevant?
- 8) What is your location - city & country (so that we can learn where certain toxins are more prevalent). Philadelphia, PA