



SEX: Male
AGE: 51

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	21	< 7.0	
Antimony (Sb)	0.072	< 0.066	
Arsenic (As)	0.10	< 0.080	
Barium (Ba)	0.35	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.015	< 2.0	
Cadmium (Cd)	0.031	< 0.065	
Lead (Pb)	0.70	< 0.80	
Mercury (Hg)	0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.003	< 0.002	
Uranium (U)	0.13	< 0.060	
Nickel (Ni)	0.09	< 0.20	
Silver (Ag)	0.06	< 0.08	
Tin (Sn)	0.14	< 0.30	
Titanium (Ti)	0.75	< 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)	169	200- 750			
Magnesium (Mg)	25	25- 75			
Sodium (Na)	97	20- 180			
Potassium (K)	150	9- 80			
Copper (Cu)	17	11- 30			
Zinc (Zn)	170	130- 200			
Manganese (Mn)	0.65	0.08- 0.50			
Chromium (Cr)	0.48	0.40- 0.70			
Vanadium (V)	0.086	0.018- 0.065			
Molybdenum (Mo)	0.035	0.025- 0.060			
Boron (B)	1.8	0.40- 3.0			
Iodine (I)	0.61	0.25- 1.8			
Lithium (Li)	0.012	0.007- 0.020			
Phosphorus (P)	177	150- 220			
Selenium (Se)	0.55	0.70- 1.2			
Strontium (Sr)	0.26	0.30- 3.5			
Sulfur (S)	49200	44000- 50000			
Cobalt (Co)	0.013	0.004- 0.020			
Iron (Fe)	16	7.0- 16			
Germanium (Ge)	0.031	0.030- 0.040			
Rubidium (Rb)	0.21	0.011- 0.12			
Zirconium (Zr)	0.14	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 06/10/2015		Ca/Mg	6.76
Date Received: 06/16/2015		Ca/P	0.955
Date Completed: 06/18/2015		Na/K	0.647
Methodology: ICP/MS		Zn/Cu	10
Sample Size: 0.198 g		Zn/Cd	> 999
Sample Type: Head			
Hair Color: Brown			
Treatment:			
Shampoo: Pert			
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Health history for hair test 1104

Q. What are your current symptoms and health history?

A. My son was diagnosed with ASD

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

A. None yet

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

A. Recent cavities but this was post diagnosis

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

A. None

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

A. All of them

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

A. Vitamins, probiotics

Q. What is your age, height and weight?

A. 7 YRS, 4', 61 lbs,

Q. Other information you feel may be relevant?

A. Traveled to Brazil every year and may have swallowed pool water?

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

A. Danvers, MA born in Beverly, MA