

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	68 th PERCENTILE 95 th
Aluminum (Al)		3.0	< 8.0	
Antimony (Sb)		0.050	< 0.066	
Arsenic (As)		0.031	< 0.080	
Barium (Ba)		0.21	< 0.75	
Beryllium (Be)		< 0.01	< 0.020	
Bismuth (Bi)		0.019	< 2.0	
Cadmium (Cd)		0.017	< 0.070	
Lead (Pb)		1.1	< 1.0	
Mercury (Hg)		0.23	< 0.40	
Platinum (Pt)		< 0.003	< 0.005	
Thallium (Tl)		< 0.001	< 0.002	
Thorium (Th)		< 0.001	< 0.002	
Uranium (U)		0.005	< 0.060	
Nickel (Ni)		0.04	< 0.20	
Silver (Ag)		0.11	< 0.14	
Tin (Sn)		0.45	< 0.30	
Titanium (Ti)		0.46	< 0.70	
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS				
		RESULT µg/g	REFERENCE INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)		221	160- 500	
Magnesium (Mg)		87	12- 50	
Sodium (Na)		22	20- 200	
Potassium (K)		18	12- 140	
Copper (Cu)		45	11- 32	
Zinc (Zn)		160	110- 190	
Manganese (Mn)		0.25	0.08- 0.50	
Chromium (Cr)		0.60	0.40- 0.70	
Vanadium (V)		0.071	0.025- 0.10	
Molybdenum (Mo)		0.036	0.040- 0.090	
Boron (B)		1.7	0.50- 3.5	
Iodine (I)		1.3	0.25- 1.3	
Lithium (Li)		< 0.004	0.007- 0.020	
Phosphorus (P)		161	150- 220	
Selenium (Se)		0.77	0.70- 1.1	
Strontium (Sr)		0.26	0.21- 2.1	
Sulfur (S)		48300	44000- 51000	
Cobalt (Co)		0.009	0.004- 0.020	
Iron (Fe)		8.3	7.0- 16	
Germanium (Ge)		0.029	0.030- 0.040	
Rubidium (Rb)		0.034	0.008- 0.080	
Zirconium (Zr)		0.072	0.060- 0.70	

SPECIMEN DATA	RATIOS		
	ELEMENTS	RATIOS	RANGE
COMMENTS: Date Collected: 8/26/2012 Sample Size: 0.199 g Date Received: 8/30/2012 Sample Type: Head Date Completed: 9/1/2012 Hair Color: Methodology: ICP/MS Treatment: Shampoo: Kirkman Kleen	Ca/Mg	2.54	4- 30
	Ca/P	1.37	0.8- 8
	Na/K	1.22	0.5- 10
	Zn/Cu	3.56	4- 20
	Zn/Cd	> 999	> 800

Health history for hair test 664

1. What are your current symptoms and health history? Adam: yeast infections/candida, heavy metal poisoning/ regressive autism
2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) Adam: none
3. What dental work do you currently have in place? What part of the dental clean-up have you completed? Adam: none
4. What dentistry did your mother have at any time before or during pregnancy? Adam: Flu shot, tb shot, polio shot, rhogam shot
5. What vaccinations have you had and when (including flu and especially travel shots)? Adam: polio shot, hib shot, hepB, hepA, MMR, Tetnus, DTap, PCV7, Rotavirus (fully vaccinated up to 3yrs of age).
6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? Adam: Vitamin C (Ascorbyl palmitate 450mg X3 times a day/ Buffered ascorbic acid 960mg X3 times a day), Zinc (30mg), Cod Liver Oil, Raw Chlorella, Spirulina 500mg, Ambrotose whole food supplement.
7. What is your age, height and weight? Adam: 6, 4'5, 54lbs
8. Other information you feel may be relevant? Adam: regress into autism at 24-months old, we believe his immunization shots are the cause for his autism.
9. What is your location – city & country (so that we can learn where certain toxins are more prevalent). Adam: Tigard, Oregon, United States