

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum	(Al)	5.3	< 8.0	
Antimony	(Sb)	0.018	< 0.066	
Arsenic	(As)	0.045	< 0.080	
Barium	(Ba)	0.19	< 0.75	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.005	< 2.0	
Cadmium	(Cd)	0.011	< 0.070	
Lead	(Pb)	0.67	< 1.0	
Mercury	(Hg)	0.85	< 0.40	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	0.002	< 0.002	
Uranium	(U)	0.15	< 0.060	
Nickel	(Ni)	0.04	< 0.20	
Silver	(Ag)	0.22	< 0.14	
Tin	(Sn)	0.08	< 0.30	
Titanium	(Ti)	0.34	< 0.70	
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)	120	160- 500	
Magnesium	(Mg)	8	12- 50	
Sodium	(Na)	35	20- 200	
Potassium	(K)	32	12- 140	
Copper	(Cu)	170	11- 32	
Zinc	(Zn)	100	110- 190	
Manganese	(Mn)	0.15	0.08- 0.50	
Chromium	(Cr)	0.59	0.40- 0.70	
Vanadium	(V)	0.12	0.025- 0.10	
Molybdenum	(Mo)	0.11	0.040- 0.090	
Boron	(B)	0.86	0.50- 3.5	
Iodine	(I)	0.33	0.25- 1.3	
Lithium	(Li)	< 0.004	0.007- 0.020	
Phosphorus	(P)	156	150- 220	
Selenium	(Se)	0.69	0.70- 1.1	
Strontium	(Sr)	0.27	0.21- 2.1	
Sulfur	(S)	48300	44000- 51000	
Cobalt	(Co)	0.006	0.004- 0.020	
Iron	(Fe)	12	7.0- 16	
Germanium	(Ge)	0.030	0.030- 0.040	
Rubidium	(Rb)	0.049	0.008- 0.080	
Zirconium	(Zr)	0.054	0.060- 0.70	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 07/16/2014	Sample Size: 0.196 g	Ca/Mg	15
Date Received: 08/01/2014	Sample Type: Head	Ca/P	0.769
Date Completed: 08/02/2014	Hair Color:	Na/K	1.09
Methodology: ICP/MS	Treatment:	Zn/Cu	0.588
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Health history for hair test 1003

What are your current symptoms and health history?

Sensory Processing Disorder diagnosed with mild symptoms. Stimming or stereotypical behaviors, intolerance or allergy to dairy (raw milk yogurt okay), possibly gluten, oats, penicillins.

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

None but mother had amalgam removed while still breastfeeding by a regular dentist

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

None

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

before had alma gams, some removed prior to pregnancy and replaced with composites, other removed while still breastfeeding

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

2 flu shots at 6 mos and 1 year, 2 polio shots, DTAP, Hib

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

fermented cod liver oil, fish oil (NOrdic naturals), vita c, vita b, zinc, probiotics, possibly NAC.

What is your age, height and weight?

Age 6, 47" tall, 43 lbs

Other information you feel may be relevant?

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

Denver, Colorado USA