

Toxic & Essential Elements; Hair

TOXIC METALS				
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
			68 th	95 th
Aluminum (Al)	4.7	< 7.0		
Antimony (Sb)	0.018	< 0.050		
Arsenic (As)	0.034	< 0.060		
Barium (Ba)	1.7	< 2.0		
Beryllium (Be)	< 0.01	< 0.020		
Bismuth (Bi)	1.3	< 2.0		
Cadmium (Cd)	0.012	< 0.050		
Lead (Pb)	1.4	< 0.60		
Mercury (Hg)	0.35	< 0.80		
Platinum (Pt)	< 0.003	< 0.005		
Thallium (Tl)	< 0.001	< 0.002		
Thorium (Th)	< 0.001	< 0.002		
Uranium (U)	0.008	< 0.060		
Nickel (Ni)	0.14	< 0.30		
Silver (Ag)	0.04	< 0.15		
Tin (Sn)	0.12	< 0.30		
Titanium (Ti)	0.32	< 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)	466	300- 1200					
Magnesium (Mg)	29	35- 120					
Sodium (Na)	14	20- 250					
Potassium (K)	7	8- 75					
Copper (Cu)	24	11- 37					
Zinc (Zn)	180	140- 220					
Manganese (Mn)	1.1	0.08- 0.60					
Chromium (Cr)	0.36	0.40- 0.65					
Vanadium (V)	0.025	0.018- 0.065					
Molybdenum (Mo)	0.041	0.020- 0.050					
Boron (B)	0.11	0.25- 1.5					
Iodine (I)	0.16	0.25- 1.8					
Lithium (Li)	0.024	0.007- 0.020					
Phosphorus (P)	159	150- 220					
Selenium (Se)	0.91	0.55- 1.1					
Strontium (Sr)	1.2	0.50- 7.6					
Sulfur (S)	48700	44000- 50000					
Cobalt (Co)	0.009	0.005- 0.040					
Iron (Fe)	11	7.0- 16					
Germanium (Ge)	0.027	0.030- 0.040					
Rubidium (Rb)	0.009	0.007- 0.096					
Zirconium (Zr)	0.022	0.020- 0.42					

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 12/20/2012	Sample Size: 0.201 g	Ca/Mg	16.1	4- 30
Date Received: 12/26/2012	Sample Type: Head	Ca/P	2.93	1- 12
Date Completed: 12/29/2012	Hair Color: Brown	Na/K	2	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	7.5	4- 20
	Shampoo: Tresemmé	Zn/Cd	> 999	> 800

Health history for hair test 712

- 1) CFS, chronic pain, stupidity, a range of autoimmune diseases, depression, etc.
- 2) 13 fillings, braces for six years. First amalgam at age 8.
- 3) All fillings replaced safely four months ago.
- 4) Many amalgam fillings.
- 5) Conscientiously did all vaccines and boosters as an adult.
- 6) Too many to name, multiple times a day, for years: B vitamins, some amino acids, minerals, adrenal support, antivirals, digestive enzymes.
- 7) Have been incapacitated since amalgam removal.
- 8) Have lived in a variety of places in the Canada, US, and Europe.