

Toxic & Essential Elements; Hair

TOXIC METALS				
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
			68 th	95 th
Aluminum (Al)	8.6	< 7.0		
Antimony (Sb)	< 0.01	< 0.050		
Arsenic (As)	0.022	< 0.060		
Barium (Ba)	0.36	< 2.0		
Beryllium (Be)	< 0.01	< 0.020		
Bismuth (Bi)	0.12	< 2.0		
Cadmium (Cd)	< 0.009	< 0.050		
Lead (Pb)	0.24	< 0.60		
Mercury (Hg)	0.33	< 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)	0.07	< 0.30		
Silver (Ag)	0.02	< 0.15		
Tin (Sn)	0.03	< 0.30		
Titanium (Ti)	0.28	< 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)	429	300- 1200					
Magnesium (Mg)	44	35- 120					
Sodium (Na)	37	20- 250					
Potassium (K)	29	8- 75					
Copper (Cu)	42	11- 37					
Zinc (Zn)	200	140- 220					
Manganese (Mn)	0.24	0.08- 0.60					
Chromium (Cr)	0.35	0.40- 0.65					
Vanadium (V)	0.034	0.018- 0.065					
Molybdenum (Mo)	0.028	0.020- 0.050					
Boron (B)	0.46	0.25- 1.5					
Iodine (I)	0.62	0.25- 1.8					
Lithium (Li)	< 0.004	0.007- 0.020					
Phosphorus (P)	170	150- 220					
Selenium (Se)	0.59	0.55- 1.1					
Strontium (Sr)	1.2	0.50- 7.6					
Sulfur (S)	49200	44000- 50000					
Cobalt (Co)	0.017	0.005- 0.040					
Iron (Fe)	6.6	7.0- 16					
Germanium (Ge)	0.026	0.030- 0.040					
Rubidium (Rb)	0.057	0.007- 0.096					
Zirconium (Zr)	0.032	0.020- 0.42					

COMMENTS:	SPECIMEN DATA		RATIOS		
	ELEMENTS	RATIOS	RANGE		
Date Collected: 04/03/2013	Sample Size: 0.168 g	Ca/Mg	9.75	4- 30	
Date Received: 04/08/2013	Sample Type: Head	Ca/P	2.52	1- 12	
Date Completed: 04/10/2013	Hair Color: Blond	Na/K	1.28	0.5- 10	
Methodology: ICP/MS	Treatment:	Zn/Cu	4.76	4- 20	
	Shampoo: Shampoo Bar	Zn/Cd	> 999	> 800	

Health history for hair test 817

1. Current symptoms are fatigue and aches sometimes in joints. I definitely think my thyroid is affected. My memory too. I had about 9 amalgams out one month ago.
2. I've never had wisdom teeth grow. I had 3 root canals and one fell apart and was extracted about 8 years ago. The last two were just extracted one month ago. The amalgams are over 40 years old.
3. I currently have a false front tooth with a bridge of caps on either side of it from thirty some years ago after a car accident. Not sure what the metal is made of on the part facing inside my mouth
4. My mother had false teeth before getting pregnant with me. Some dr. pulled them instead of straightening them.
5. I had some childhood immunizations and Hep B was mandatory for my job as an EMT about 12 years ago.
6. I really wasn't on any supplements when hair tests were taken.
8. I live by Atlantic City, NJ.