



SEX: Male  
AGE: 68

## Toxic & Essential Elements; Hair

TOXIC METALS			
		RESULT μg/g	REFERENCE INTERVAL
			68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	0.6	< 12	
Antimony (Sb)	0.015	< 0.080	
Arsenic (As)	0.029	< 0.12	
Barium (Ba)	0.47	< 1.5	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.003	< 2.0	
Cadmium (Cd)	0.027	< 0.065	
Lead (Pb)	1.0	< 1.5	
Mercury (Hg)	0.11	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.049	< 0.060	
Nickel (Ni)	0.05	< 0.40	
Silver (Ag)	0.07	< 0.10	
Tin (Sn)	1.1	< 0.30	
Titanium (Ti)	0.37	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
		RESULT μg/g	REFERENCE INTERVAL
			2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
Calcium (Ca)	442	375– 1100	
Magnesium (Mg)	64	40– 140	
Sodium (Na)	270	60– 400	
Potassium (K)	180	28– 160	
Copper (Cu)	9.0	11– 32	
Zinc (Zn)	140	120– 200	
Manganese (Mn)	0.10	0.15– 0.65	
Chromium (Cr)	0.39	0.40– 0.70	
Vanadium (V)	0.031	0.018– 0.065	
Molybdenum (Mo)	0.11	0.040– 0.080	
Boron (B)	19	0.40– 2.5	
Iodine (I)	28	0.25– 1.8	
Lithium (Li)	0.023	0.008– 0.030	
Phosphorus (P)	214	200– 300	
Selenium (Se)	1.4	0.80– 1.3	
Strontium (Sr)	1.6	1.0– 6.0	
Sulfur (S)	43600	41000– 47000	
Cobalt (Co)	0.006	0.006– 0.035	
Iron (Fe)	6.9	7.0– 16	
Germanium (Ge)	0.022	0.030– 0.040	
Rubidium (Rb)	0.15	0.030– 0.25	
Zirconium (Zr)	0.021	0.040– 1.0	

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 08/04/2014		Ca/Mg	6.91	4– 30
Date Received: 08/12/2014		Ca/P	2.07	0.8– 8
Date Completed: 08/14/2014		Na/K	1.5	0.5– 10
Methodology: ICP/MS		Zn/Cu	15.6	4– 20
Sample Size: 0.205 g		Zn/Cd	> 999	> 800
Sample Type: Pubic				
Hair Color: Brown				
Treatment:				
Shampoo: None				

## Health history for hair test 999

1. Intermittent fatigue and brain fog, increasingly poor short term memory and poor mental processing in general, poor appetite and weight loss, anxiety/depression.
2. Wisdom teeth plus two other extractions 5 years ago. First amalgams as a child.
3. Did a complete dental revision 4-5 years ago removing 30 amalgams & several gold crowns. Some teeth were extracted & all current fillings are composite & new crowns are ceramic.
4. No idea what dentistry mother had at time of pregnancy. She had only a few metal fillings & is no longer living so I cannot give you any more information.
5. NO vaccinations since childhood when I believe we were given vaccinations for small pox, whooping cough, diphtheria, polio, tetanus.
6. & 8. From 2-4 years ago I did Andy Cutler chelation about 40 rounds and have been doing large amounts of all his recommended supplements plus trials of various herbs for symptomatic relief. This continues thru the present. I stopped chelating two years ago when my adrenals crashed and was hit with weight loss & high anxiety. By then some symptoms had lessened or stopped: chronic fatigue became intermittent fatigue, heart racing and irregular pulse beat much reduced, muscle tremors gone, brain fog lessened. I've stopped losing weight but haven't gained any back and still have a lot of anxiety which I treat with acupuncture and Diazepam. I've had moderately high blood pressure since the adrenal crash which is well controlled by pharmaceuticals (Quinipril & Amlodipine.) I intend to start chelation again and while I realize the supplements I take are skewing the hair test results, I am looking for any clues that would help me chelate successfully.
7. My age is 69, height 5' 9", weight 111.
9. St. Louis City, USA.