



SEX: Male  
AGE: 45

*Toxic & Essential Elements; Hair*

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	2.9	< 7.0	
Antimony (Sb)	0.041	< 0.066	
Arsenic (As)	0.057	< 0.080	
Barium (Ba)	0.19	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.037	< 2.0	
Cadmium (Cd)	0.050	< 0.065	
Lead (Pb)	4.1	< 0.80	
Mercury (Hg)	5.2	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.021	< 0.060	
Nickel (Ni)	0.10	< 0.20	
Silver (Ag)	0.14	< 0.08	
Tin (Sn)	0.27	< 0.30	
Titanium (Ti)	0.33	< 0.60	
<b>Total Toxic Representation</b>			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	411	200- 750			
Magnesium (Mg)	160	25- 75			
Sodium (Na)	32	20- 180			
Potassium (K)	25	9- 80			
Copper (Cu)	14	11- 30			
Zinc (Zn)	190	130- 200			
Manganese (Mn)	0.09	0.08- 0.50			
Chromium (Cr)	0.62	0.40- 0.70			
Vanadium (V)	0.050	0.018- 0.065			
Molybdenum (Mo)	0.026	0.025- 0.060			
Boron (B)	1.5	0.40- 3.0			
Iodine (I)	0.98	0.25- 1.8			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	153	150- 220			
Selenium (Se)	0.58	0.70- 1.2			
Strontium (Sr)	1.6	0.30- 3.5			
Sulfur (S)	48300	44000- 50000			
Cobalt (Co)	0.012	0.004- 0.020			
Iron (Fe)	6.9	7.0- 16			
Germanium (Ge)	0.028	0.030- 0.040			
Rubidium (Rb)	0.023	0.011- 0.12			
Zirconium (Zr)	0.028	0.020- 0.44			

SPECIMEN DATA	RATIOS		
<b>COMMENTS:</b>	ELEMENTS	RATIOS	RANGE
Date Collected: 11/15/2014	Ca/Mg	2.57	4- 30
Date Received: 12/05/2014	Ca/P	2.69	0.8- 8
Date Completed: 12/07/2014	Na/K	1.28	0.5- 10
Methodology: ICP/MS	Zn/Cu	13.6	4- 20
Sample Size: 0.197 g	Zn/Cd	> 999	> 800
Sample Type: Head			
Hair Color: Blond			
Treatment:			
Shampoo: Organic			

## **Health history for hair test 1027**

- 1) severe all body nerve pain, tinnitus, hypersensitivity, insomnia, twitching, depersonalisation, memory loss
- 2) 10 fillings in 1990, 7 removed 2010, last 3 removed 2014
- 3) none
- 4) don't know
- 5) flu vaccine twice
- 6) My age is 45, height 6 ft 1 inch, weight 185 lbs.
- 7) Had sinus operation in 1990 plus dental work, had severe reaction to operation, was put on prozac, clonazepam later added, came off all drugs 2010, severe withdrawal reactions. Got much worse after having 7 fillings removed in 2010 by unsafe dentist. In a lot of pain, and worried that chelating will make the pain unbearable. But desperate to feel better.
- 8) London UK