



SEX: Male
AGE: 52

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	4.6	< 7.0	
Antimony (Sb)	0.28	< 0.066	
Arsenic (As)	0.080	< 0.080	
Barium (Ba)	0.52	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	0.074	< 0.065	
Lead (Pb)	1.8	< 0.80	
Mercury (Hg)	1.1	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.005	< 0.060	
Nickel (Ni)	0.15	< 0.20	
Silver (Ag)	0.03	< 0.08	
Tin (Sn)	0.14	< 0.30	
Titanium (Ti)	0.32	< 0.60	
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)	368	200- 750			
Magnesium (Mg)	11	25- 75			
Sodium (Na)	180	20- 180			
Potassium (K)	74	9- 80			
Copper (Cu)	27	11- 30			
Zinc (Zn)	150	130- 200			
Manganese (Mn)	1.3	0.08- 0.50			
Chromium (Cr)	0.43	0.40- 0.70			
Vanadium (V)	0.067	0.018- 0.065			
Molybdenum (Mo)	0.033	0.025- 0.060			
Boron (B)	1.1	0.40- 3.0			
Iodine (I)	0.18	0.25- 1.8			
Lithium (Li)	0.014	0.007- 0.020			
Phosphorus (P)	143	150- 220			
Selenium (Se)	0.46	0.70- 1.2			
Strontium (Sr)	1.0	0.30- 3.5			
Sulfur (S)	49900	44000- 50000			
Cobalt (Co)	0.014	0.004- 0.020			
Iron (Fe)	7.7	7.0- 16			
Germanium (Ge)	0.037	0.030- 0.040			
Rubidium (Rb)	0.13	0.011- 0.12			
Zirconium (Zr)	0.035	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 08/19/2015		Ca/Mg	33.5
Date Received: 08/24/2015		Ca/P	2.57
Date Completed: 08/26/2015		Na/K	2.43
Methodology: ICP/MS		Zn/Cu	5.56
Sample Size: 0.202 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Vosene			
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Health history for hair test 1149

- 1/ I have good strong teeth with several amalgam fillings
- 2/ I have been diagnosed with Asperger Syndrome
- 3/ I take serotonin for depression and to help with Asperger Syndrome
- 4/ I am reasonably fit & healthy
- 5/ I have difficulty sleeping and get up several times a night
- 6/ I am quite a solitary person
- 7/ I smoke about 15 hand rolled cigarettes a day
- 8/ [Male, 52 Years old, Living in Ely, Cambridgeshire, Uk](#)