



AGE: 37

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)		0.8	< 7.0	
Antimony (Sb)		< 0.01	< 0.066	
Arsenic (As)		0.039	< 0.080	
Barium (Ba)		0.20	< 1.0	
Beryllium (Be)		< 0.01	< 0.020	
Bismuth (Bi)		0.010	< 2.0	
Cadmium (Cd)		< 0.009	< 0.065	
Lead (Pb)		0.08	< 0.80	
Mercury (Hg)		0.54	< 0.80	
Platinum (Pt)		< 0.003	< 0.005	
Thallium (Tl)		< 0.001	< 0.002	
Thorium (Th)		< 0.001	< 0.002	
Uranium (U)		0.036	< 0.060	
Nickel (Ni)		0.10	< 0.20	
Silver (Ag)		0.05	< 0.08	
Tin (Sn)		0.05	< 0.30	
Titanium (Ti)		0.26	< 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)		672	200- 750		
Magnesium (Mg)		42	25- 75		
Sodium (Na)		53	20- 180		
Potassium (K)		43	9- 80		
Copper (Cu)		12	11- 30		
Zinc (Zn)		180	130- 200		
Manganese (Mn)		0.07	0.08- 0.50		
Chromium (Cr)		0.39	0.40- 0.70		
Vanadium (V)		0.029	0.018- 0.065		
Molybdenum (Mo)		0.022	0.025- 0.060		
Boron (B)		0.52	0.40- 3.0		
Iodine (I)		1.9	0.25- 1.8		
Lithium (Li)		0.006	0.007- 0.020		
Phosphorus (P)		185	150- 220		
Selenium (Se)		0.47	0.70- 1.2		
Strontium (Sr)		1.5	0.30- 3.5		
Sulfur (S)		49100	44000- 50000		
Cobalt (Co)		0.004	0.004- 0.020		
Iron (Fe)		6.6	7.0- 16		
Germanium (Ge)		0.035	0.030- 0.040		
Rubidium (Rb)		0.066	0.011- 0.12		
Zirconium (Zr)		< 0.007	0.020- 0.44		

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 01/30/2021	Sample Size: 0.198 g	Ca/Mg	16
Date Received: 02/03/2021	Sample Type: Head	Ca/P	3.63
Date Reported: 02/05/2021	Hair Color:	Na/K	1.23
Methodology: ICP/MS	Treatment:	Zn/Cu	15
	Shampoo: Dr Organic	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800