

Toxic & Essential Elements; Hair

TOXIC METALS				
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
			68 th	95 th
Aluminum (Al)	2.7	< 7.0		
Antimony (Sb)	0.32	< 0.066		
Arsenic (As)	0.039	< 0.080		
Barium (Ba)	0.33	< 1.0		
Beryllium (Be)	< 0.01	< 0.020		
Bismuth (Bi)	0.019	< 2.0		
Cadmium (Cd)	< 0.009	< 0.065		
Lead (Pb)	0.39	< 0.80		
Mercury (Hg)	1.2	< 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)	0.12	< 0.20		
Silver (Ag)	0.01	< 0.08		
Tin (Sn)	0.04	< 0.30		
Titanium (Ti)	0.22	< 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)	270	200- 750					
Magnesium (Mg)	22	25- 75					
Sodium (Na)	55	20- 180					
Potassium (K)	27	9- 80					
Copper (Cu)	10	11- 30					
Zinc (Zn)	170	130- 200					
Manganese (Mn)	0.09	0.08- 0.50					
Chromium (Cr)	0.44	0.40- 0.70					
Vanadium (V)	0.027	0.018- 0.065					
Molybdenum (Mo)	0.021	0.025- 0.060					
Boron (B)	0.44	0.40- 3.0					
Iodine (I)	0.44	0.25- 1.8					
Lithium (Li)	< 0.004	0.007- 0.020					
Phosphorus (P)	188	150- 220					
Selenium (Se)	0.81	0.70- 1.2					
Strontium (Sr)	0.53	0.30- 3.5					
Sulfur (S)	45400	44000- 50000					
Cobalt (Co)	0.011	0.004- 0.020					
Iron (Fe)	6.0	7.0- 16					
Germanium (Ge)	0.032	0.030- 0.040					
Rubidium (Rb)	0.023	0.011- 0.12					
Zirconium (Zr)	0.010	0.020- 0.44					

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 11/19/2012		Ca/Mg	12.3	4- 30
Date Received: 11/23/2012		Ca/P	1.44	0.8- 8
Date Completed: 11/28/2012		Na/K	2.04	0.5- 10
Methodology: ICP/MS		Zn/Cu	17	4- 20
Sample Size: 0.195 g		Zn/Cd	> 999	> 800
Sample Type: Head				
Hair Color: Black				
Treatment:				
Shampoo: Silver Ultra				

Health history for hair test 709

1. symptoms coughing, respiratory issues, Acromegaly, enlarged prostate
2. dental history braces yes, root canal yes, bridges yes, amalgams yes 6
3. 6 amalgams, none done yet
4. mom had many amalgams unsure of number
5. vaccinations all childhood, no flu shot, no travel shots.
6. saw palmetto, d, c, e multi,
7. I am a chef that cook frequently on the grill and many home improvements included painting, varnishing and stripping.
8. Rumson, NJ USA