

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	25	< 7.0			
Antimony	(Sb)	0.064	< 0.050			
Arsenic	(As)	0.13	< 0.060			
Barium	(Ba)	0.43	< 2.0			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	0.060	< 2.0	•		
Cadmium	(Cd)	0.048	< 0.050			
Lead	(Pb)	2.6	< 0.60			
Mercury	(Hg)	0.22	< 0.80			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	0.001	< 0.002			
Uranium	(U)	0.064	< 0.060			
Nickel	(Ni)	0.13	< 0.30			
Silver	(Ag)	0.16	< 0.15			
Tin	(Sn)	0.24	< 0.30			
Titanium	(Ti)	0.31	< 0.70			
Total Toxic Represent	ation					

ESSENTIAL AND OTHER ELEMENTS								
		RESULT	REFERENCE	PERCENTILE				
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th				
Calcium	(Ca)	328	300- 1200					
Magnesium	(Mg)	16	35- 120					
Sodium	(Na)	58	20- 250	•				
Potassium	(K)	29	8- 75					
Copper	(Cu)	72	11- 37					
Zinc	(Zn)	100	140- 220					
Manganese	(Mn)	0.40	0.08- 0.60					
Chromium	(Cr)	0.80	0.40- 0.65					
Vanadium	(V)	0.15	0.018- 0.065					
Molybdenum	(Mo)	0.079	0.020- 0.050					
Boron	(B)	1.7	0.25- 1.5					
lodine	(I)	0.77	0.25- 1.8					
Lithium	(Li)	< 0.004	0.007- 0.020					
Phosphorus	(P)	148	150- 220					
Selenium	(Se)	1.1	0.55- 1.1					
Strontium	(Sr)	0.66	0.50- 7.6					
Sulfur	(S)	45800	44000- 50000					
Cobalt	(Co)	0.008	0.005- 0.040					
Iron	(Fe)	10	7.0- 16	•				
Germanium	(Ge)	0.029	0.030- 0.040					
Rubidium	(Rb)	0.024	0.007- 0.096	•				
Zirconium	(Zr)	1.8	0.020- 0.42					

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	20.5	4- 30	
Date Collected:	Sample Size: 0.181 g	Ca/P	2.22	1- 12	
Date Received: 9/17/2011	Sample Type: Head	Na/K	2	0.5- 10	
Date Completed: 9/22/2011	Hair Color:	Zn/Cu	1.39	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo:	·			

Health history for hair test 522

This hair test is for my 25 y.o. son. He has ongoing depression, severe sway back, crohn's, flat feet, some anxiety, zero motivation. Many many symptoms - depression, anxiety, insomnia, back/body pain, difficulty walking, digestive/food issues. Has recently become a vegetarian and feels amazingly better, has very low energy, self-diagnoses with Asperger's. He currently takes anti-depressants and no other drugs or supplements. He had all the required childhood vaccines, including hep A & B, and most flu shots - unfortunately. I do not know about travel shots, or which drug he is on. I suspect he had fillings, but am not sure.

I have mercury issues, which were there when I was pregnant with him, an not dental work done during pregnancy.

He was born missing one tooth and cracked another next to it, which led to much dentistry to rebuild everything - including false teeth, full braces, several versions of an implant and finally surgery to implant one on a titanium post.

Rachel