

<5 = "H9 GH."% ' %

SEX: Male AGE: 55

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	2.4	< 7.0			
Antimony	(Sb)	0.013	< 0.066			
Arsenic	(As)	0.036	< 0.080			
Barium	(Ba)	0.24	< 1.0			
Beryllium	(Be)	0.25	< 0.020			
Bismuth	(Bi)	0.007	< 2.0	•		
Cadmium	(Cd)	0.018	< 0.065			
Lead	(Pb)	0.22	< 0.80			
Mercury	(Hg)	0.03	< 0.80	•		
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	0.002	< 0.002			
Uranium	(U)	0.051	< 0.060			
Nickel	(Ni)	0.12	< 0.20			
Silver	(Ag)	0.06	< 0.08			
Tin	(Sn)	0.09	< 0.30			
Titanium	(Ti)	0.24	< 0.60			
Total Toxic Representation	n					

ESSENTIAL AND OTHER ELEMENTS								
		RESULT	REFERENCE	PERCENTILE				
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th				
Calcium	(Ca)	154	200- 750					
Magnesium	(Mg)	32	25- 75					
Sodium	(Na)	68	20- 180	•				
Potassium	(K)	10	9- 80					
Copper	(Cu)	11	11- 30					
Zinc	(Zn)	180	130- 200					
Manganese	(Mn)	0.29	0.08- 0.50					
Chromium	(Cr)	0.40	0.40- 0.70					
Vanadium	(V)	0.015	0.018- 0.065					
Molybdenum	(Mo)	0.041	0.025- 0.060	•				
Boron	(B)	0.43	0.40- 3.0					
lodine	(I)	0.41	0.25- 1.8					
Lithium	(Li)	0.007	0.007- 0.020					
Phosphorus	(P)	154	150- 220					
Selenium	(Se)	1.5	0.70- 1.2					
Strontium	(Sr)	0.13	0.30- 3.5					
Sulfur	(S)	46600	44000- 50000					
Cobalt	(Co)	0.005	0.004- 0.020					
Iron	(Fe)	7.5	7.0- 16					
Germanium	(Ge)	0.036	0.030- 0.040					
Rubidium	(Rb)	0.014	0.011- 0.12					
Zirconium	(Zr)	0.18	0.020- 0.44					

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	4.81	4- 30	
Date Collected: 01/02/2017	Sample Size: 0.204 g	Ca/P	1	0.8- 8	
Date Received: 01/09/2017	Sample Type: неаd	Na/K	6.8	0.5- 10	
Date Completed: 01/11/2017	Hair Color: Brown	Zn/Cu	16.4	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo: Aveda	·			

56yrs old, 6'3 185lbs Manitou Springs Colorado

What are your current symptoms and health history? Very healthly and active. Only complaint is terrible toe nail fungus.

Dental history – Wisdom teeth removed as teenage. No braces, root canals, or extractions. First cavity at age 54 filled with composite filling. I have a total of 4 cavities on two molars filled with composites.

What dentistry did your mother have at any time before or during pregnancy? Unknown

What vaccinations have you had and when (including flu and especially travel shots)? As a child I had -Smallpox, Diphtheria*, Tetanus*, Pertussis*, Polio (OPV), Measles, Mumps, Rubella, * Given in combination as DTP

As an adult I have had several flu shots, 3 more Hep B, and 2 MMR for medical school

Other information you feel may be relevant?

Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? No medications

- 1 Purple Defense Resveratrol-Mercola
- 1 Mannatech PLUS
- 1 Magnesium JigSaw 150mg
- 1 Mannatech Ambrotose glyconutrients
- 2 Ultra High EPA/DHA Fish Oil 500mg each DHA
- 3 Cod Liver Oil capsules- Rosita just started
- 1 Krill Oil 1000mg
- 2 Flax/Borage 500mg
- 1 Vit. D 2,000iu's Vital Nutrients- just stopped

Vitamin K2 1000 mcg Thorne Liquid

- 1 CQ 10 Ubiquinol 200 NOW
- 1 Phyto Curcumin w/Enzymes Curcumin 1050mg, bromelain 100mg, Serratiopeptidase 12,000 units
- 1 Selenium -L-Selenomethionine -Source Naturals 200mcg

Vit. C 250mg daily

Vit. B Complex SRT -just started

Vit E – D-Alpha 45iu, Gamma E Mixed Tocopherols 360mg & Tocotrienols 145mg current-**just started** Boron 3 mg **just started**

Potassium 1000 mg over the day just started