

## Toxic &amp; Essential Elements; Hair

## TOXIC METALS

		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
				68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	(Al)	8.2	< 8.0		
Antimony	(Sb)	< 0.01	< 0.066		
Arsenic	(As)	0.025	< 0.060		
Barium	(Ba)	0.37	< 1.5		
Beryllium	(Be)	< 0.01	< 0.020		
Bismuth	(Bi)	0.026	< 2.0		
Cadmium	(Cd)	0.026	< 0.060		
Lead	(Pb)	0.63	< 0.60		
Mercury	(Hg)	0.07	< 0.40		
Platinum	(Pt)	< 0.003	< 0.005		
Thallium	(Tl)	< 0.001	< 0.002		
Thorium	(Th)	< 0.001	< 0.002		
Uranium	(U)	0.033	< 0.060		
Nickel	(Ni)	0.27	< 0.30		
Silver	(Ag)	0.02	< 0.18		
Tin	(Sn)	0.05	< 0.30		
Titanium	(Ti)	0.15	< 0.60		
Total Toxic Representation					

## ESSENTIAL AND OTHER ELEMENTS

		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE				
				2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	(Ca)	646	350- 1000					
Magnesium	(Mg)	69	35- 120					
Sodium	(Na)	18	18- 180					
Potassium	(K)	7	8- 75					
Copper	(Cu)	25	11- 37					
Zinc	(Zn)	200	150- 230					
Manganese	(Mn)	0.14	0.08- 0.60					
Chromium	(Cr)	0.32	0.40- 0.65					
Vanadium	(V)	0.015	0.020- 0.075					
Molybdenum	(Mo)	0.039	0.025- 0.060					
Boron	(B)	0.26	0.20- 1.2					
Iodine	(I)	0.36	0.25- 1.3					
Lithium	(Li)	< 0.004	0.007- 0.020					
Phosphorus	(P)	138	150- 220					
Selenium	(Se)	0.64	0.70- 1.1					
Strontium	(Sr)	1.1	0.86- 6.2					
Sulfur	(S)	49600	44000- 50000					
Cobalt	(Co)	0.027	0.005- 0.040					
Iron	(Fe)	7.5	7.0- 16					
Germanium	(Ge)	0.025	0.031- 0.040					
Rubidium	(Rb)	0.011	0.006- 0.060					
Zirconium	(Zr)	0.092	0.025- 0.50					

## SPECIMEN DATA

## COMMENTS:

Date Collected: 06/20/2014

Date Received: 06/28/2014

Date Completed: 07/01/2014

Methodology: ICP/MS

Sample Size: 0.197 g

Sample Type: Head

Hair Color: Blond

Treatment:

Shampoo: Avalon

## RATIOS

ELEMENTS	RATIOS	RANGE
Ca/Mg	9.36	4 - 30
Ca/P	4.68	1 - 12
Na/K	2.57	0.5 - 10
Zn/Cu	8	4 - 20
Zn/Cd	> 999	> 800

## Health history for hair test 981

What are your current symptoms and health history? Suicidal depression, White spots on nails, sensitivity to loud noises, extreme sun sensitivity and pain when exposed to the sun, eczema, awkward interpersonal/ peer relations, peeling nails, absence of dreaming, exaggerated startle reflex, scoliosis, procrastination, metallic smelling skin and fingers.

- Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc  
None

- What dental work do you currently have in place? What part of the dental clean-up have you completed? None

- What dentistry did your mother have at any time before or during pregnancy? 8 amalgams

- What vaccinations have you had and when (including flu and especially travel shots)? All normal childhood vax, + at least 2 flu shots and a meningitis shot

Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? B6 100mg, Zn 30mg, C 500\*2x, Fish Oil 3g, Vit E 400iu

- What is your age, height and weight? 13 years, 62in, 94lbs

- Other information you feel may be relevant? Mother is hair test number

- What is your location – city & country (so that we can learn where certain toxins are more prevalent).

Outside of Frankfurt, Germany