## Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g 7.1	REFERENCE INTERVAL	68 <sup>th</sup> 95 <sup>th</sup>		
Aluminum	(AI)		< 7.0			
Antimony	(Sb)	< 0.01	< 0.050			
Arsenic	(As)	0.027	< 0.060			
Barium	(Ba)	0.20	< 2.0			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	0.023	< 2.0			
Cadmium	(Cd)	< 0.009	< 0.050			
Lead	(Pb)	0.06	< 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)	0.005	< 0.060			
Nickel	(Ni)	0.03	< 0.30			
Silver	(Ag)	0.02	< 0.15			
Tin	(Sn)	0.06	< 0.30			
Titanium	(Ti)	0.30	< 0.70			
Total Toxic Representat	ion					

ESSENTIAL AND OTHER ELEMENTS						
		RESULT	REFERENCE INTERVAL	2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium	(Ca)	250	300- 1200			
Magnesium	(Mg)	15	35- 120			
Sodium	(Na)	12	20- 250			
Potassium	(K)	3	8- 75			
Copper	(Cu)	9.0	11- 37			
Zinc	(Zn)	190	140- 220			
Manganese	(Mn)	0.13	0.08- 0.60			
Chromium	(Cr)	0.31	0.40- 0.65			
Vanadium	(V)	0.032	0.018- 0.065			
Molybdenum	(Mo)	0.032	0.020- 0.050			
Boron	(B)	0.50	0.25- 1.5			
lodine	(I)	1.7	0.25- 1.8			
Lithium	(Li)	< 0.004	0.007- 0.020			
Phosphorus	(P)	163	150- 220			
Selenium	(Se)	0.76	0.55- 1.1			
Strontium	(Sr)	0.31	0.50- 7.6			
Sulfur	(S)	48800	44000- 50000			
Cobalt	(Co)	0.005	0.005- 0.040			
Iron	(Fe)	5.6	7.0- 16			
Germanium	(Ge)	0.026	0.030- 0.040			
Rubidium	(Rb)	0.005	0.007- 0.096			
Zirconium	(Zr)	0.033	0.020- 0.42			

SF	RATIOS			
COMMENTS:		ELEMENTS	RATIOS	RANGE
		Ca/Mg	16.7	4- 30
Date Collected: 07/19/2013	Sample Size: 0.195 g	Ca/P	1.53	1- 12
Date Received: 07/29/2013	Sample Type: Head	Na/K	4	0.5- 10
Date Completed: 07/31/2013	Hair Color: Red	Zn/Cu	21.1	4- 20
lethodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800
	Shamnoo Pure Essentials			

## **Health history for hair test 829**

What are your current symptoms and health history?

Extreme fatigue, multiple chemical sensitivities, depression, poor short term memory, brain fog.

Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)

Wisdom teeth removed 1982, Other extractions years later. First root canal 1989.No braces, First amalgam age 7

What dental work do you currently have in place? What part of the dental clean-up have you completed?

I have 4-5 ? crowns over root canals and and 2 bridges. I have had my amalgams removed (2)

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

I don't know.

What vaccinations have you had and when (including flu and especially travel shots)?

I had the smallpox vaccine, polio (oral?), diptheria, tetanaus, pertussis, and possibly measles, mumps and rubella. In 1980, I must have had shots to travel overseas from USA to Germany

Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?

I had just started taking Zinc, Magnesium, B complex, C, E, Borage oil, and Flaxseed. Wellbutrin 350 mg, Effexor 75 mg, Lorazapam 5mg, Trazodone 150 mg, Synthroid .4mg Lithothyronine 5mcg

What is your age, height and weight?

Age: 53, 5'2", 110

Other information you feel may be relevant?

I grew up in Massachusetts, USA next to a farm where they sprayed pesticides. I've sprayed our house with Dursban insect killer several times. Highly toxic.

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

I lived in Massachusetts USA for 19 years and the past 25 years I have lived in Charleston South Carolina .USA