

*Toxic & Essential Elements; Hair*

TOXIC METALS						
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE		
				68 <sup>th</sup>	95 <sup>th</sup>	
Aluminum	(Al)	4.1	< 8.0			
Antimony	(Sb)	0.024	< 0.066			
Arsenic	(As)	0.053	< 0.080			
Barium	(Ba)	0.16	< 0.75			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	0.039	< 2.0			
Cadmium	(Cd)	0.025	< 0.070			
Lead	(Pb)	0.39	< 1.0			
Mercury	(Hg)	< 0.03	< 0.40			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(Tl)	< 0.001	< 0.002			
Thorium	(Th)	< 0.001	< 0.002			
Uranium	(U)	0.057	< 0.060			
Nickel	(Ni)	0.05	< 0.30			
Silver	(Ag)	0.02	< 0.20			
Tin	(Sn)	0.15	< 0.30			
Titanium	(Ti)	0.28	< 0.90			
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)	187	140- 500					
Magnesium	(Mg)	17	15- 45					
Sodium	(Na)	56	18- 180					
Potassium	(K)	89	10- 150					
Copper	(Cu)	8.8	11- 24					
Zinc	(Zn)	130	100- 190					
Manganese	(Mn)	0.09	0.10- 0.50					
Chromium	(Cr)	0.42	0.43- 0.70					
Vanadium	(V)	0.045	0.030- 0.10					
Molybdenum	(Mo)	0.039	0.050- 0.13					
Boron	(B)	3.1	0.40- 3.5					
Iodine	(I)	0.75	0.25- 1.3					
Lithium	(Li)	0.004	0.007- 0.020					
Phosphorus	(P)	165	150- 220					
Selenium	(Se)	0.52	0.70- 1.1					
Strontium	(Sr)	0.24	0.19- 2.0					
Sulfur	(S)	50700	45500- 53000					
Cobalt	(Co)	0.006	0.005- 0.030					
Iron	(Fe)	9.0	7.0- 16					
Germanium	(Ge)	0.029	0.030- 0.040					
Rubidium	(Rb)	0.12	0.012- 0.16					
Zirconium	(Zr)	0.033	0.030- 1.0					

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 2/12/2012	Sample Size: 0.196 g	Ca/Mg	11	4- 30
Date Received: 2/24/2012	Sample Type: Head	Ca/P	1.13	1- 12
Date Completed: 2/26/2012	Hair Color:	Na/K	0.629	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	14.8	4- 20
	Shampoo:	Zn/Cd	> 999	> 800

## Health history for hair test 597

### **1. What are your current symptoms and health history?**

PDD-NOS  
constipation  
parasites  
candida  
agression/autoagression  
tantrums  
developmental and language delay  
stomach ache

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

No amalgams, no dental history

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

None

### **4. What dentistry did your mother have at any time before or during pregnancy?**

Two amalgams as a child, both gone long before pregnancy.

### **5. What vaccinations have you had and when (including flu and especially travel shots)?**

HepB, tuberculose, MMR,

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

homeopathy  
Liver Live  
Claire Vitaspectrum  
Magnesium Citrate  
Epsom Salt Baths  
ProEFA  
ProEPA  
probiotic (BioGaia)

### **7. What is your age, height and weight?**

3.5 yo, 98cm, 15kg

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

Sofia, Bulgaria