



PATIENT: Number 682  
 SEX: Male  
 AGE: 5

### Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	12	< 8.0	
Antimony (Sb)	0.050	< 0.066	
Arsenic (As)	0.22	< 0.080	
Barium (Ba)	0.63	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.023	< 2.0	
Cadmium (Cd)	0.063	< 0.070	
Lead (Pb)	0.38	< 1.0	
Mercury (Hg)	1.5	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.002	< 0.002	
Uranium (U)	0.18	< 0.060	
Nickel (Ni)	0.16	< 0.20	
Silver (Ag)	0.16	< 0.20	
Tin (Sn)	0.23	< 0.30	
Titanium (Ti)	0.79	< 1.0	
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)	185	125- 370			
Magnesium (Mg)	27	12- 30			
Sodium (Na)	85	20- 200			
Potassium (K)	42	12- 200			
Copper (Cu)	11	11- 18			
Zinc (Zn)	130	100- 190			
Manganese (Mn)	0.34	0.10- 0.50			
Chromium (Cr)	0.79	0.43- 0.80			
Vanadium (V)	0.23	0.030- 0.10			
Molybdenum (Mo)	0.12	0.050- 0.13			
Boron (B)	3.6	0.70- 5.0			
Iodine (I)	1.7	0.25- 1.3			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	144	150- 220			
Selenium (Se)	2.4	0.70- 1.1			
Strontium (Sr)	0.57	0.16- 1.0			
Sulfur (S)	48500	45500- 53000			
Cobalt (Co)	0.010	0.004- 0.020			
Iron (Fe)	15	7.0- 16			
Germanium (Ge)	0.030	0.030- 0.040			
Rubidium (Rb)	0.057	0.016- 0.18			
Zirconium (Zr)	0.12	0.040- 1.0			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 8/31/2011		Ca/Mg	6.85
Date Received: 9/3/2011		Ca/P	1.28
Date Completed: 9/8/2011		Na/K	2.02
Methodology: ICP/MS		Zn/Cu	11.8
Sample Size: 0.199 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Kirkmans			
		<b>RANGE</b>	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

## **Health history for hair test 682**

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

Autism & Sensory Processing Disorder. Developmentally he's always been ahead. IQ is very high. But behavior and mood are horrendous. I also suspect ADHD, Oppositional Defiant Disorder, and Emotional Disorder.

### **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?**

N/A

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

2 Metal fillings (but not put in during pregnancy).

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

Hep B (within 20 minutes of birth, 3 months, & 5 months).

Polio (3 months & 5 months)

HIB (3 months & 5 months)

DTAP (2 months & 4 months)

Pneumococcal (2 months, 4 months, 11 months, & 13 months)

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

#### **Juice Plus+ Orchard & Garden (1 green, 1 red, 1 purple)**

Lauricidin Monolaurin

Probiotics

Digestive Enzymes

DMG 250mg

Folinic Acid 800mcg

mB-12 injections

I-Taurine 325mg

Multi-Vitamin

Nystatin

Vitamin D-3 1000IU

Zinc Picolinate 25mg

Cod Liver Oil (1/2 teaspoon - for only the 2 days prior to taking this test)

glutathione cream (.5mL)

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

5.5 years old. 44". 40 lbs.

### **Other information you feel may be relevant?**

From the age of 1-4.5 years old, we lived in an area that had water levels high in arsenic, and near bombing ranges.

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

California.