



SEX: Male  
AGE: 4

**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	5.2	< 8.0	
Antimony (Sb)	0.066	< 0.066	
Arsenic (As)	0.11	< 0.080	
Barium (Ba)	0.23	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.15	< 2.0	
Cadmium (Cd)	< 0.009	< 0.070	
Lead (Pb)	0.14	< 1.0	
Mercury (Hg)	0.08	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.33	< 0.060	
Nickel (Ni)	0.05	< 0.20	
Silver (Ag)	0.09	< 0.20	
Tin (Sn)	0.25	< 0.30	
Titanium (Ti)	0.55	< 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)	350	125- 370			
Magnesium (Mg)	100	12- 30			
Sodium (Na)	130	20- 200			
Potassium (K)	51	12- 200			
Copper (Cu)	23	11- 18			
Zinc (Zn)	160	100- 190			
Manganese (Mn)	0.25	0.10- 0.50			
Chromium (Cr)	0.42	0.43- 0.80			
Vanadium (V)	0.066	0.030- 0.10			
Molybdenum (Mo)	0.080	0.050- 0.13			
Boron (B)	6.7	0.70- 5.0			
Iodine (I)	1.2	0.25- 1.3			
Lithium (Li)	0.031	0.007- 0.020			
Phosphorus (P)	166	150- 220			
Selenium (Se)	1.1	0.70- 1.1			
Strontium (Sr)	0.65	0.16- 1.0			
Sulfur (S)	48000	45500- 53000			
Cobalt (Co)	0.010	0.004- 0.020			
Iron (Fe)	9.4	7.0- 16			
Germanium (Ge)	0.032	0.030- 0.040			
Rubidium (Rb)	0.055	0.016- 0.18			
Zirconium (Zr)	0.60	0.040- 1.0			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 02/27/2014		Ca/Mg	3.5
Date Received: 03/03/2014		Ca/P	2.11
Date Completed: 03/05/2014		Na/K	2.55
Methodology: ICP/MS		Zn/Cu	6.96
Sample Size: 0.197 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Black	Treatment:		
Shampoo: Jj			
		<b>RANGE</b>	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

## **Health history for hair test 928**

Q: What are your current symptoms and health history?

Ans: He is diagnosed with Autism, six months back. He is delayed in speech, but can communicate with simple sentences. He walks on his toes, but if we prompt him to walk properly for a short time.

Doesn't play with his toys properly. Is not sensitive to light and sound and any other things. But has some sensory issues like spinning, jumping, walking upstairs and downstairs etc.

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

Ans: No dental history.

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

Ans: Nothing.

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

Ans: No amalgam filling ever.

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

Ans: DTaP/DTP/DT : 4 nos  
Polio : 4 nos  
Hib : 4 nos  
PCV7 : 4 nos  
Hep B : 3 nos  
Hep A : 2 nos  
Rotavirus : 2 nos  
MMR  
VAR  
Influenza : 2 nos

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

Ans: Multivitamins : 4 doses  
Cod Liver Oil : 1 tsp  
5 MTHFR : 400mcg each twice daily  
Enzyme : 2 doses  
Zinc : 15 mg  
B6 : 320mg  
Mg. : 160 mg  
Nystatin. : 4 tsp  
B12 : injection daily  
Grape fruit seed extract  
Oil of oregano

Q. What is your age, height and weight?

Ans: Age 4 years 9 months  
Height 43 inches  
Weight 40 lbs

Q. Other information you feel may be relevant?

Ans: My son has MTHFR heterogenous mutation.

Q. What is your location – city & country (so that we can learn where certain toxins are more prevalent). Ans: We are located in Chandler, AZ, US