



< 5 F H9 GH. %%)
 SEX: Male
 AGE: 14

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	5.4	< 8.0	
Antimony (Sb)	0.018	< 0.066	
Arsenic (As)	0.042	< 0.080	
Barium (Ba)	0.21	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.67	< 2.0	
Cadmium (Cd)	0.016	< 0.060	
Lead (Pb)	0.28	< 1.0	
Mercury (Hg)	0.04	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.004	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	0.07	< 0.10	
Tin (Sn)	0.05	< 0.30	
Titanium (Ti)	0.40	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th		
Calcium (Ca)	322	200- 700			
Magnesium (Mg)	27	18- 70			
Sodium (Na)	100	20- 200			
Potassium (K)	62	9- 80			
Copper (Cu)	14	11- 32			
Zinc (Zn)	200	150- 230			
Manganese (Mn)	0.33	0.08- 0.50			
Chromium (Cr)	0.39	0.40- 0.70			
Vanadium (V)	0.030	0.020- 0.075			
Molybdenum (Mo)	0.033	0.030- 0.060			
Boron (B)	0.89	0.34- 3.0			
Iodine (I)	0.61	0.25- 1.3			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	188	150- 220			
Selenium (Se)	0.77	0.70- 1.2			
Strontium (Sr)	0.38	0.30- 3.2			
Sulfur (S)	44600	44000- 50000			
Cobalt (Co)	0.006	0.004- 0.020			
Iron (Fe)	13	7.0- 16			
Germanium (Ge)	0.037	0.030- 0.040			
Rubidium (Rb)	0.056	0.009- 0.090			
Zirconium (Zr)	0.29	0.047- 0.70			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 04/17/2016	Sample Size: 0.197 g	Ca/Mg	11.9	4- 30
Date Received: 04/25/2016	Sample Type: Head	Ca/P	1.71	0.8- 8
Date Completed: 04/28/2016	Hair Color:	Na/K	1.61	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	14.3	4- 20
	Shampoo: Pantene	Zn/Cd	> 999	> 800

Health history for hair test 1195

- 1) What are your current symptoms and health history?
ADD on school work but seems to be very focused on things he likes.
- 2) Dental history: **No cavities, braces soon, 2 extractions 7 months ago to remove baby teeth and create room for teeth coming in.**
- 3) What dental work do you currently have in place? **None, but braces very soon.**
- 4) What dentistry did your mother have at any time before or during pregnancy?
4 amalgam fillings.
- 5) What vaccinations:
1 flu shoot, all childhood vaccinations, typhoid & Hep. A & B for travel.
- 6) Supplements and medications: **None**
- 8) **14 years old male, born in Burbank, CA and has lived in Nashville, TN for 10 years.**