



PATIENT: Number 580  
 SEX: Male  
 AGE: 21

**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	4.6	< 7.0	
Antimony (Sb)	0.028	< 0.066	
Arsenic (As)	0.037	< 0.080	
Barium (Ba)	0.56	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.030	< 2.0	
Cadmium (Cd)	0.029	< 0.065	
Lead (Pb)	0.26	< 0.80	
Mercury (Hg)	0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.11	< 0.060	
Nickel (Ni)	0.05	< 0.20	
Silver (Ag)	0.05	< 0.08	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.32	< 0.60	
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)	481	200- 750			
Magnesium (Mg)	27	25- 75			
Sodium (Na)	9	20- 180			
Potassium (K)	< 3	9- 80			
Copper (Cu)	15	11- 30			
Zinc (Zn)	210	130- 200			
Manganese (Mn)	0.10	0.08- 0.50			
Chromium (Cr)	0.37	0.40- 0.70			
Vanadium (V)	0.029	0.018- 0.065			
Molybdenum (Mo)	0.066	0.025- 0.060			
Boron (B)	0.10	0.40- 3.0			
Iodine (I)	0.35	0.25- 1.8			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	161	150- 220			
Selenium (Se)	1.0	0.70- 1.2			
Strontium (Sr)	1.5	0.30- 3.5			
Sulfur (S)	43400	44000- 50000			
Cobalt (Co)	< 0.002	0.004- 0.020			
Iron (Fe)	5.6	7.0- 16			
Germanium (Ge)	0.024	0.030- 0.040			
Rubidium (Rb)	< 0.003	0.011- 0.12			
Zirconium (Zr)	0.085	0.020- 0.44			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 10/5/2011		Ca/Mg	17.8
Date Received: 10/11/2011		Ca/P	2.99
Date Completed: 10/13/2011		Na/K	3
Methodology: ICP/MS		Zn/Cu	14
Sample Size: 0.2 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Red	Treatment:		
Shampoo: Suave			
		<b>RANGE</b>	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

## **Health history for hair test 580**

This test is for the son of #344.

1. What are your current symptoms and health history?

Lethargy, hair loss, dyslexia. During childhood, had extensive eye therapy, special ed. Delayed development, poor fine motor control, tremors. School recommended adhd meds starting at age 9, but parents refused.

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

No amalgams, no root canals, wisdom teeth still in place. Numerous baby teeth had to be extracted, one adult upper lateral incisor is missing (never developed)

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

Composite fillings only, no amalgams or crowns.

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

Mother had numerous amalgams in place during pregnancy, as well as a series of allergy shots during her childhood. Mother received rhogam shots during pregnancy.

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

All normal vaccinations, no flu or travel shots.

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

None.

7. What is your age, height and weight?

Age 21, 5'11", 200 lbs.

8. Other information you feel may be relevant?

Mother experienced marked improvement in energy and mood during pregnancy.

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

Denver, CO, USA (son of #344)