

# HAIR ELEMENTS



**PATIENT: Number 158**  
**SEX: Female**  
**AGE: 31**  
**Location: Ogden; UTah**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	3.2	< 7.0	██████████	
Antimony	0.011	< 0.050	●	
Arsenic	0.022	< 0.060	██████████	
Beryllium	< 0.01	< 0.020		
Bismuth	0.015	< 2.0	●	
Cadmium	0.053	< 0.10	██████████	
Lead	0.67	< 1.0	██████████	
Mercury	0.10	< 1.1	██	
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	0.001	< 0.005	●	
Uranium	0.058	< 0.060	██████████	
Nickel	0.49	< 0.40	██████████	
Silver	0.34	< 0.15	██████████	
Tin	1.3	< 0.30	██████████	
Titanium	0.40	< 1.0	██████████	
Total Toxic Representation			██████████	

## ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	2430	300- 1200			██████████		
Magnesium	190	35- 120			██████████		
Sodium	52	12- 90			██████████		
Potassium	25	8- 38			██████████		
Copper	490	12- 35			██████████		
Zinc	180	140- 220			●		
Manganese	0.11	0.15- 0.65		██████████			
Chromium	0.29	0.20- 0.40			██		
Vanadium	0.012	0.018- 0.065		██████████			
Molybdenum	0.021	0.028- 0.056		██████████			
Boron	0.14	0.30- 2.0		██████████			
Iodine	0.21	0.25- 1.3		██████████			
Lithium	0.004	0.007- 0.023		██████████			
Phosphorus	153	160- 250		██████████			
Selenium	1.1	0.95- 1.7			██████████		
Strontium	5.3	0.50- 7.6			██████████		
Sulfur	47600	44500- 52000			██		
Barium	2.2	0.26- 3.0			██████████		
Cobalt	0.012	0.013- 0.050		██████████			
Iron	7.5	5.4- 14			██		
Germanium	0.039	0.045- 0.065		██████████			
Rubidium	0.014	0.007- 0.096			██████████		
Zirconium	0.38	0.020- 0.42			██████████		

### SPECIMEN DATA

**COMMENTS:**  
 Date Collected: 4/9/2008      Sample Size: 0.197 g  
 Date Received: 4/12/2008      Sample Type: Head  
 Date Completed: 4/18/2008      Hair Color:  
    Treatment:  
 Methodology: ICP-MS              Shampoo:

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	12.8	4- 30
Ca/P	15.9	1- 12
Na/K	2.08	0.5- 10
Zn/Cu	0.367	4- 20
Zn/Cd	> 999	> 800

V06.99

## **HISTORY**

### **Health symptoms:**

I feel pretty healthy. I wanted to get my hair tested, because my son has autism. We want to have another child soon, and I want to see what my results show. The only symptom I have is sometimes I have cold hands, and I like to have the temp. set warmer than most people do. Sometimes I get dry eyes (but I live in a desert so that is probably why).

### **Dental History:**

My teeth are terrible! I have 10 silver fillings, and 2 of them are pretty much all silver no tooth. I got a root canal when I was 8 and the dentist was awful it got infected and he had to go in and redo it. Then as an adult my new (and much better dentist said that the tooth looked really bad so he redid it again - hence an all silver tooth). My wisdom teeth were pulled when I was around 22 by an oral surgeon. I have clear braces on for many years (10 years and then I demanded them off even though my teeth are more messed up now than when I started and my bite isn't lined up at all- I had a knack for getting quacks to work on my teeth!) I then had another root canal when I was 23. This has all white filling (although I don't know if it is none metal). I then had a skin graft on my bottom gum line (because the braces were on too long). I went to a mercury free dentist to see what kind of money it would be to fix this mess and I can't afford it all at once. I am going in to get one tooth redone. I will slowly take the amalgams out.

### **Mother's Dentistry:**

Not sure.. Not many silver fillings she came from another country and they just pulled infected teeth.

### **Vaccines:**

I was born in 77. I had the required vaccines of the time. I don't get flu shots, and I haven't gotten any shot since I was a very small child.

### **Supplements:**

Women's one vitamin  
birth control pill

### **Info:**

My family seems to be weak when it comes to mercury. Every grandparent in my family has gotten Alzheimer's. My grandma and my great aunt both had their Alzheimer's start after a series of antibiotic shots (the one had a staff infection she also had all her teeth pulled and fake teeth screwed into her jaw). My little sister flaps, and when she received the teenage vaccination she suddenly became severely anorexic (she suffered for over 2 years and still struggles). My mom has the cold hands, depression, allergies, asthma, etc.