

# HAIR ELEMENTS



PATIENT: Number 385  
SEX: Female  
AGE: 29  
LOCATION: Southeastern U.S

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	4.8	< 7.0		
Antimony	0.20	< 0.050		
Arsenic	0.12	< 0.060		
Barium	0.35	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	3.5	< 2.0		
Cadmium	0.025	< 0.050		
Lead	0.04	< 0.60		
Mercury	0.40	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.002	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	< 0.001	< 0.060		
Nickel	0.07	< 0.30		
Silver	0.01	< 0.15		
Tin	0.14	< 0.30		
Titanium	1.1	< 0.70		
Total Toxic Representation				

## ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/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	257	300– 1200					
Magnesium	17	35– 120					
Sodium	110	20– 250					
Potassium	98	8– 75					
Copper	8.1	11– 37					
Zinc	160	140– 220					
Manganese	0.06	0.08– 0.60					
Chromium	0.33	0.40– 0.65					
Vanadium	0.028	0.018– 0.065					
Molybdenum	0.030	0.020– 0.050					
Boron	2.2	0.25– 1.5					
Iodine	1.1	0.25– 1.8					
Lithium	0.009	0.007– 0.020					
Phosphorus	163	150– 220					
Selenium	0.83	0.55– 1.1					
Strontium	0.51	0.50– 7.6					
Sulfur	44900	44000– 50000					
Cobalt	0.002	0.005– 0.040					
Iron	9.1	7.0– 16					
Germanium	0.029	0.030– 0.040					
Rubidium	0.10	0.007– 0.096					
Zirconium	0.019	0.020– 0.42					

## SPECIMEN DATA

### COMMENTS: NAPE

Date Collected: 5/18/2010  
Date Received: 5/21/2010  
Date Completed: 5/28/2010  
Client Reference:  
Methodology: ICP-MS

Sample Size: 0.198 g  
Sample Type: Head  
Hair Color: Brown  
Treatment:  
Shampoo: Mineral Fusion

V010.08

## RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	15.1	4– 30
Ca/P	1.58	1– 12
Na/K	1.12	0.5– 10
Zn/Cu	19.8	4– 20
Zn/Cd	> 999	> 800

## **Health history for hair test 385**

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

Fatigue – (at times exhaustion). Cold hands and poor circulation. Times of shortness of breath. Environmental allergies. Puffy under eyes. Overwhelmed, mood swings, and easily angered. Unable to take mind off list of “to-do’s.” Less so these days, but often experienced restless leg syndrome and calf cramps.

### **2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam, etc...)**

First amalgam at young age. Total of 8 to 10 amalgams into late teens. Braces in late teens.

### **3) What dental work do you currently have in place? What part of the dental cleanup have you completed?**

Presently all composite/resin fillings. All amalgams were replaced (removed) IMPROPERLY ten years ago (at 19 yrs of age).

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

Numerous amalgam (and possibly) gold fillings. Poor dental and gum hygiene.

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

Fully vaccinated through childhood. MMR booster before starting college.

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

Nothing consistently, not even a multi-vitamin. Sporadically (when remembered to take): CoQ10 100mg and Acetyl-L-Carnitine 500mg and ~1-2gm Vitamin C.

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

At the time of improper amalgam removal, colon practically shut-down and needed colonics. In looking back, husband correlates relational stress starting back to time of fillings being improperly removed and MMR booster (which occurred within weeks of each other). Mother smoked through pregnancy and childhood upbringing.

Lab work shows:

- **Low Platelets (139k**, range: 140-415): note – had hemorrhaged during firstborn delivery (we believe due to this which has been low since before delivery)
- **Low-Normal WBC (4.1**, range: 4.0-10.5)
- **Thyroid TSH (3.380**, range: 0.450-4.500) no FT3/4 readings
- **Low-Normal Alkaline Phos. (49**, range: 25-150)

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

Presently - Southeastern U.S.  
Raised in Southern Florida