

# HAIR ELEMENTS



**PATIENT: Number 430**  
**SEX: Female**  
**AGE: 38**  
**LOCATION: Middlesex country, MA, USA**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	1.1	< 7.0		
Antimony	0.018	< 0.050		
Arsenic	0.064	< 0.060		
Barium	0.16	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.050	< 2.0		
Cadmium	0.025	< 0.050		
Lead	0.24	< 0.60		
Mercury	1.8	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.004	< 0.060		
Nickel	0.04	< 0.30		
Silver	0.04	< 0.15		
Tin	0.19	< 0.30		
Titanium	0.54	< 0.70		
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	280	300- 1200					
Magnesium	13	35- 120					
Sodium	330	20- 250					
Potassium	420	8- 75					
Copper	11	11- 37					
Zinc	110	140- 220					
Manganese	0.12	0.08- 0.60					
Chromium	0.44	0.40- 0.65					
Vanadium	0.016	0.018- 0.065					
Molybdenum	0.032	0.020- 0.050					
Boron	1.9	0.25- 1.5					
Iodine	2.6	0.25- 1.8					
Lithium	0.008	0.007- 0.020					
Phosphorus	242	150- 220					
Selenium	0.93	0.55- 1.1					
Strontium	0.24	0.50- 7.6					
Sulfur	44500	44000- 50000					
Cobalt	0.003	0.005- 0.040					
Iron	7.2	7.0- 16					
Germanium	0.023	0.030- 0.040					
Rubidium	0.39	0.007- 0.096					
Zirconium	0.014	0.020- 0.42					

### SPECIMEN DATA

**COMMENTS:**

Date Collected: 11/19/2010      Sample Size: 0.203 g  
 Date Received: 11/23/2010      Sample Type: Head  
 Date Completed: 11/24/2010      Hair Color: Black  
 Client Reference: 1252371      Treatment:  
 Methodology: ICP-MS      Shampoo: Gpb

V010.08

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	21.5	4- 30
Ca/P	1.16	1- 12
Na/K	0.786	0.5- 10
Zn/Cu	10	4- 20
Zn/Cd	> 999	> 800

## **Health history for hair test 430**

### 1. What are your current symptoms and health history?

My current symptoms: irritable, no patience, short term memory issues, depression, fatigue, joint pains, food cravings, mood swings, cold feet/hand, sensitive to light and noise.

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

I have two amalgam teeth from age 24 to 34.

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

My two amalgam tooth have been broken and the broken tooth have being extracted.

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

None.

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

Flu shot every year for 5 years.

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

Calcium and magnesium occasionally.

### 7. What is your age, height and weight?

age 38, 5 feet 4 inches, 120 pound

### 8. Other information you feel may be relevant?

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

Middlesex country, MA.