

# HAIR ELEMENTS



PATIENT: Number 371  
SEX: Female  
AGE: 12  
LOCATION: Florida, USA

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE		
			68 <sup>th</sup>	95 <sup>th</sup>	
Aluminum	3.1	< 8.0			
Antimony	< 0.01	< 0.066			
Arsenic	0.032	< 0.060			
Barium	0.46	< 1.5			
Beryllium	< 0.01	< 0.020			
Bismuth	0.034	< 2.0			
Cadmium	0.049	< 0.060			
Lead	0.27	< 0.60			
Mercury	0.08	< 0.40			
Platinum	< 0.003	< 0.005			
Thallium	< 0.001	< 0.002			
Thorium	< 0.001	< 0.002			
Uranium	0.010	< 0.060			
Nickel	0.08	< 0.30			
Silver	0.01	< 0.18			
Tin	0.24	< 0.30			
Titanium	0.29	< 0.60			
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	926	350- 1000					
Magnesium	220	35- 120					
Sodium	13	18- 180					
Potassium	6	8- 75					
Copper	14	11- 37					
Zinc	180	150- 230					
Manganese	0.20	0.08- 0.60					
Chromium	0.32	0.40- 0.65					
Vanadium	0.014	0.020- 0.075					
Molybdenum	0.047	0.025- 0.060					
Boron	0.56	0.20- 1.2					
Iodine	0.47	0.25- 1.3					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	163	150- 220					
Selenium	0.84	0.70- 1.1					
Strontium	1.8	0.86- 6.2					
Sulfur	51100	44000- 50000					
Cobalt	0.005	0.005- 0.040					
Iron	8.8	7.0- 16					
Germanium	0.028	0.031- 0.040					
Rubidium	0.011	0.006- 0.060					
Zirconium	0.19	0.025- 0.50					

## SPECIMEN DATA

### COMMENTS:

Date Collected: 5/15/2010  
Date Received: 5/19/2010  
Date Completed: 5/23/2010  
Client Reference: 1230442  
Methodology: ICP-MS

Sample Size: 0.202 g  
Sample Type: Head  
Hair Color: Brown  
Treatment:  
Shampoo: Organic Hair Care

V010.08

## RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	4.21	4- 30
Ca/P	5.68	1- 12
Na/K	2.17	0.5- 10
Zn/Cu	12.9	4- 20
Zn/Cd	> 999	> 800

### **Health history for hair test 371 (sister of 340)**

1. What are your current symptoms and health history?

migraines till age 6, allergy, digestive problems, sinus infections

history: ruptured appendix April 2009,

fractured spleen age 4

many times antibiotics because of infections (pneumonia, appendix, sinus infections, infections of the tonsils, ear infections)

2. Dental history (Wisdom teeth removed and when? Any other

extractions. First root canal placed? Braces? First amalgam etc...)

no amalgam fillings, 4 composite fillings

3. What dental work do you currently have in place? What part of the dental clean-up have you completed? none

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

many amalgam fillings, 4 root canals, crowns, 1 bridge with gold

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

some vaccination till age 2, no hepatitis, no mmr.

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

magnesium for about 6 month for the migraines, some zinc,

sometimes multisupplement, lots of homoeopathic remedies,

some probiotics

7. What is your age, height and weight? age 12, skinny, tall, weight around 78 pounds

8. Other information you feel may be relevant? changed diet to vegetarian in janury 2010

9. What is your location – city & country (so that we can learn where certain toxins are more prevalent Florida, 08 - 09 Washington, Tacoma, before Germany, Maryland.