

# HAIR ELEMENTS



PATIENT: Number 415  
SEX: Female  
AGE: 48  
LOCATION: New Hampshire, USA

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT μg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	3.7	< 7.0		
Antimony	0.017	< 0.050		
Arsenic	0.076	< 0.060		
Barium	0.21	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.068	< 2.0		
Cadmium	0.032	< 0.050		
Lead	0.24	< 0.60		
Mercury	< 0.03	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.012	< 0.060		
Nickel	0.10	< 0.30		
Silver	0.03	< 0.15		
Tin	0.06	< 0.30		
Titanium	0.57	< 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	467	300– 1200					
Magnesium	120	35– 120					
Sodium	190	20– 250					
Potassium	47	8– 75					
Copper	16	11– 37					
Zinc	190	140– 220					
Manganese	1.4	0.08– 0.60					
Chromium	0.44	0.40– 0.65					
Vanadium	0.058	0.018– 0.065					
Molybdenum	0.028	0.020– 0.050					
Boron	0.93	0.25– 1.5					
Iodine	0.63	0.25– 1.8					
Lithium	0.005	0.007– 0.020					
Phosphorus	180	150– 220					
Selenium	1.1	0.55– 1.1					
Strontium	6.2	0.50– 7.6					
Sulfur	47800	44000– 50000					
Cobalt	0.010	0.005– 0.040					
Iron	14	7.0– 16					
Germanium	0.028	0.030– 0.040					
Rubidium	0.058	0.007– 0.096					
Zirconium	0.068	0.020– 0.42					

## SPECIMEN DATA

### COMMENTS:

Date Collected: 8/8/2010  
Date Received: 8/20/2010  
Date Completed: 8/21/2010  
Client Reference: 1241750  
Methodology: ICP-MS

Sample Size: 0.196 g  
Sample Type: Head  
Hair Color: Brown  
Treatment:  
Shampoo: Trader Joes

V010.08

## RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	3.89	4– 30
Ca/P	2.59	1– 12
Na/K	4.04	0.5– 10
Zn/Cu	11.9	4– 20
Zn/Cd	> 999	> 800

1) What are your current symptoms and health history?

Hypothyroid

Hashimotos suspected will run antibody tests soon

Pernicious Anemia

Hair turned grey when 26 years old. Colored up until 3 years ago

Headaches

Insomnia

2) Dental history (wisdom teeth removed? First root canal placed?

Braces? First amalgam etc...)

Had 10 amalgams placed from 9-13 years old.

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

9 Amalgams Removed in 2004

Only have 1 small amalgam left will be removed in two months

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

Unsure

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

General vaccinations in the 1960's

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

B12

Iron liquid 220mg daily

Hydrochloric acid began two weeks ago for Pernicious Anemia

7) What is your age height and weight?

Age 49, Height 5'-5" weight 140, was 5-7 when 16 years old.

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).

New Hampshire