

# HAIR ELEMENTS



**PATIENT: Number 466**  
**SEX: Female**  
**AGE: 34**  
**LOCATION: Portland, OR**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	4.3	< 7.0		
Antimony	0.010	< 0.050		
Arsenic	0.075	< 0.060		
Barium	0.14	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.013	< 2.0		
Cadmium	0.009	< 0.050		
Lead	0.11	< 0.60		
Mercury	1.1	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.006	< 0.060		
Nickel	0.01	< 0.30		
Silver	0.02	< 0.15		
Tin	0.04	< 0.30		
Titanium	0.39	< 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	218	300- 1200					
Magnesium	46	35- 120					
Sodium	6	20- 250					
Potassium	< 3	8- 75					
Copper	11	11- 37					
Zinc	180	140- 220					
Manganese	0.33	0.08- 0.60					
Chromium	0.34	0.40- 0.65					
Vanadium	0.028	0.018- 0.065					
Molybdenum	0.032	0.020- 0.050					
Boron	< 0.07	0.25- 1.5					
Iodine	0.23	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	154	150- 220					
Selenium	1.0	0.55- 1.1					
Strontium	0.62	0.50- 7.6					
Sulfur	49400	44000- 50000					
Cobalt	0.007	0.005- 0.040					
Iron	7.8	7.0- 16					
Germanium	0.027	0.030- 0.040					
Rubidium	0.003	0.007- 0.096					
Zirconium	0.068	0.020- 0.42					

### SPECIMEN DATA

**COMMENTS:**

Date Collected: 3/20/2011      Sample Size: 0.197 g  
 Date Received: 3/24/2011      Sample Type: Head  
 Date Completed: 3/26/2011      Hair Color:  
 Client Reference: 1270993      Treatment:  
 Methodology: ICP-MS      Shampoo:

V010.08

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	4.74	4- 30
Ca/P	1.42	1- 12
Na/K	2	0.5- 10
Zn/Cu	16.4	4- 20
Zn/Cd	> 999	> 800

## Health history for hair test 466

1. **What are your current symptoms and health history?** Fatigue, poor mood, acne, obsessiveness, trouble concentrating, pms, mostly flatline mood with occasional emotional outburst, occasional anxiety/fearfulness.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** wisdom teeth removed: 2 at 18, 2 at 32. a lot of composite fillings, no amalgams.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** Around 20 composite fillings and 2 crowns. No silver.
4. **What dentistry did your mother have at any time before or during pregnancy?** Not known.
5. **What vaccinations have you had and when (including flu and especially travel shots)?** Only normal vaccines during 70s. no flu shots.
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Zinc
7. **What is your age, height and weight?** 34, 5'8", 125 lbs
8. **Other information you feel may be relevant?** My son is diagnosed mild autism. His test is #457. Ate a lot of sushi in my twenties. Broke a thermometer as a child.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Portland, OR