

HAIR ELEMENTS



PATIENT: Number 463
SEX: Female
AGE: 33
LOCATION: Lancaster, PA (USA)

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	1.0	< 7.0		
Antimony	0.013	< 0.050		
Arsenic	0.039	< 0.060		
Barium	0.06	< 2.0		
Beryllium	0.010	< 0.020		
Bismuth	1.5	< 2.0		
Cadmium	< 0.009	< 0.050		
Lead	0.09	< 0.60		
Mercury	0.41	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.008	< 0.060		
Nickel	0.03	< 0.30		
Silver	0.01	< 0.15		
Tin	0.02	< 0.30		
Titanium	0.38	< 0.70		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	233	300- 1200					
Magnesium	36	35- 120					
Sodium	95	20- 250					
Potassium	< 3	8- 75					
Copper	13	11- 37					
Zinc	200	140- 220					
Manganese	0.11	0.08- 0.60					
Chromium	0.42	0.40- 0.65					
Vanadium	0.027	0.018- 0.065					
Molybdenum	0.033	0.020- 0.050					
Boron	0.21	0.25- 1.5					
Iodine	1.0	0.25- 1.8					
Lithium	0.006	0.007- 0.020					
Phosphorus	179	150- 220					
Selenium	1.3	0.55- 1.1					
Strontium	0.11	0.50- 7.6					
Sulfur	47600	44000- 50000					
Cobalt	0.006	0.005- 0.040					
Iron	7.0	7.0- 16					
Germanium	0.029	0.030- 0.040					
Rubidium	0.005	0.007- 0.096					
Zirconium	0.049	0.020- 0.42					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 3/27/2011	Sample Size: 0.197 g			Ca/Mg	6.47	4- 30
Date Received: 3/31/2011	Sample Type: Head			Ca/P	1.3	1- 12
Date Completed: 4/3/2011	Hair Color: Brown			Na/K	31.7	0.5- 10
Client Reference:	Treatment:			Zn/Cu	15.4	4- 20
Methodology: ICP-MS	Shampoo: Pantene			Zn/Cd	> 999	> 800
V010.08						

Health history for hair test 463

1. **What are your current symptoms and health history?** Digestive problems (numerous food sensitivities), hypothyroidism, memory loss/brain fog
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc)** Wisdom teeth removed in 1993. Amalgams initially put in at least 20 years ago; 8 amalgams removed in the last 4 months.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** 8 amalgams removed in the last 4 months; 7 replaced with composite fillings; 1 porcelain crown
4. **What dentistry did your mother have at any time before or during pregnancy?** Not sure
5. **What vaccinations have you had and when (including flu and especially travel shots)?** Not sure
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Selenium - 200 mcg, Vitamin C - 2 g, Vitamin D - 8,000 IU, Magnesium - 150 mg
7. **What is your age, height and weight?** 33 years old, 5'6", 110 lbs.
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).** Lancaster, PA (USA)