

# HAIR ELEMENTS



**PATIENT: Number 459**  
**SEX: Female**  
**AGE: 6**  
**LOCATION: Phoenix, Arizona, USA**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	13	< 8.0		
Antimony	0.013	< 0.066		
Arsenic	0.053	< 0.060		
Barium	0.39	< 1.5		
Beryllium	< 0.01	< 0.020		
Bismuth	0.041	< 2.0		
Cadmium	0.022	< 0.070		
Lead	0.14	< 0.80		
Mercury	0.52	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.52	< 0.060		
Nickel	0.11	< 0.30		
Silver	0.04	< 0.18		
Tin	0.26	< 0.30		
Titanium	0.79	< 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	267	250- 800					
Magnesium	52	25- 90					
Sodium	78	18- 180					
Potassium	34	10- 90					
Copper	32	11- 37					
Zinc	220	120- 220					
Manganese	0.09	0.08- 0.60					
Chromium	0.47	0.40- 0.65					
Vanadium	0.082	0.025- 0.10					
Molybdenum	0.081	0.030- 0.090					
Boron	0.99	0.30- 1.7					
Iodine	0.63	0.25- 1.3					
Lithium	0.021	0.007- 0.020					
Phosphorus	198	150- 220					
Selenium	1.0	0.70- 1.1					
Strontium	1.4	0.37- 3.6					
Sulfur	46600	44000- 51000					
Cobalt	0.008	0.005- 0.035					
Iron	16	7.0- 16					
Germanium	0.038	0.030- 0.040					
Rubidium	0.045	0.008- 0.080					
Zirconium	0.11	0.030- 0.40					

### SPECIMEN DATA

**COMMENTS:**  
 Date Collected: 11/30/2010      Sample Size: 0.197 g  
 Date Received: 12/13/2010      Sample Type: Head  
 Date Completed: 12/15/2010      Hair Color: Brown  
 Client Reference: 1252576      Treatment:  
 Methodology: ICP-MS      Shampoo: Aveda

V010.08

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	5.13	4- 30
Ca/P	1.35	1- 12
Na/K	2.29	0.5- 10
Zn/Cu	6.88	4- 20
Zn/Cd	> 999	> 800

### **Health history for hair test 459**

1. **What are your current symptoms and health history?** Frequent complaints of tummy pain, low energy, intensely emotional/reactive/sensitive, low weight.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** no dental issues at this time other than sucking two fingers still.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** not applicable
4. **What dentistry did your mother have at any time before or during pregnancy?** had amalgams, root canal, wisdom teeth cavitations, canine extractions in adolescence. all prior to pregnancy.
5. **What vaccinations have you had and when (including flu and especially travel shots)?** no vaccinations other than mother receiving one rhogham while in utero and exposure to mom's childhood vaccines and tetanus boosters.
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** n/a
7. **What is your age, height and weight?** 6, 4' and 45 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).** Phoenix, Arizona USA