

# HAIR ELEMENTS



**PATIENT: Number 338**  
**SEX: Female**  
**AGE: 33**  
**LOCATION: Fortuna, California, USA**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	9.1	< 7.0		
Antimony	0.042	< 0.050		
Arsenic	0.042	< 0.060		
Barium	7.3	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.055	< 2.0		
Cadmium	0.086	< 0.050		
Lead	0.65	< 0.60		
Mercury	0.14	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.024	< 0.060		
Nickel	0.34	< 0.30		
Silver	0.04	< 0.15		
Tin	0.12	< 0.30		
Titanium	0.99	< 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	1800	300- 1200					
Magnesium	240	35- 120					
Sodium	17	20- 250					
Potassium	15	8- 75					
Copper	21	11- 37					
Zinc	230	140- 220					
Manganese	0.23	0.08- 0.60					
Chromium	0.44	0.40- 0.65					
Vanadium	0.043	0.018- 0.065					
Molybdenum	0.048	0.020- 0.050					
Boron	0.34	0.25- 1.5					
Iodine	0.29	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	196	150- 220					
Selenium	1.3	0.55- 1.1					
Strontium	5.2	0.50- 7.6					
Sulfur	53300	44000- 50000					
Cobalt	0.035	0.005- 0.040					
Iron	7.4	7.0- 16					
Germanium	0.038	0.030- 0.040					
Rubidium	0.010	0.007- 0.096					
Zirconium	0.21	0.020- 0.42					

### SPECIMEN DATA

**COMMENTS:**  
 Date Collected: 2/27/2010      Sample Size: 0.199 g  
 Date Received: 3/3/2010      Sample Type: Head  
 Date Completed: 3/11/2010      Hair Color: Brown  
 Client Reference:      Treatment:  
 Methodology: ICP-MS      Shampoo: Finesse

V010.08

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	7.5	4- 30
Ca/P	9.18	1- 12
Na/K	1.13	0.5- 10
Zn/Cu	11	4- 20
Zn/Cd	> 999	> 800

### **Health history for hair test 338**

1. **What are your current symptoms and health history?** Severe autism, possibly positive for Lyme, epileptic, GERD, basically non-verbal. She is conserved by her parents.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** Once, under anesthesia, she had surface cavities filled with composite. Nothing else.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** This year she will be having another dental exam.
4. **What dentistry did your mother have at any time before or during pregnancy?** I, her mother, had the majority of my cavities filled with amalgams during pregnancy. Didn't know I was pregnant.
5. **What vaccinations have you had and when (including flu and especially travel shots)?** She had the usual vaccinations when she was younger. Nothing since-no flu, hep B or tetanus.
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Supplements: Iron plus 25mg, Vit D 4000U, Culturelle x 2, niacinamide 1000mg, MB12 injections every 2 weeks, Super Nu Thera x 2, Calcium/magnesium, Maxbiotic x 2-4, Saccharomyces boulardii x 2, GSE 250mg couple times a week, biotin 5mg.
  - a. Medications: Zithromax Tripak 500mg, Omnicef 300mg x 2 for Lyme, Prevacid 30mg, Ativan 3 mg, Ultram 200mg, Dexadrine 5mg, Lexapro 30mg, Gabitril 4mg.
7. **What is your age, height and weight?** 7. 33 years old, 5'7", 150 pounds.
8. **Other information you feel may be relevant** Last September she became toxic from the psychotropic medications. She had great difficulty swallowing and had dyskinesia. She has lost 110 since then and is still losing weight slowly. In September, doctors labeled her with tourettes. She never had the ticks before age 20, so I don't know if I believe it. I think it maybe medication or heavy metal related. We started nutritional supplements a few months ago. She is now speaking some single words. She reads around first grade level.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Fortuna, California, USA