

# HAIR ELEMENTS



PATIENT: Number 205

SEX: Female

AGE: 37

LOCATION: South Jordan, Utah, (suburb of Salt Lake City)

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	4.2	< 7.0		
Antimony	0.018	< 0.050		
Arsenic	0.079	< 0.060		
Beryllium	< 0.01	< 0.020		
Bismuth	0.019	< 2.0		
Cadmium	0.034	< 0.10		
Lead	0.25	< 1.0		
Mercury	0.97	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.073	< 0.060		
Nickel	0.02	< 0.40		
Silver	0.43	< 0.15		
Tin	0.10	< 0.30		
Titanium	0.36	< 1.0		
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	422	300– 1200					
Magnesium	18	35– 120					
Sodium	52	12– 90					
Potassium	89	8– 38					
Copper	28	12– 35					
Zinc	260	140– 220					
Manganese	0.04	0.15– 0.65					
Chromium	0.49	0.20– 0.40					
Vanadium	0.074	0.018– 0.065					
Molybdenum	0.051	0.028– 0.056					
Boron	1.2	0.30– 2.0					
Iodine	0.44	0.25– 1.3					
Lithium	0.007	0.007– 0.023					
Phosphorus	177	160– 250					
Selenium	1.2	0.95– 1.7					
Strontium	1.0	0.50– 7.6					
Sulfur	47100	44500– 52000					
Barium	0.76	0.26– 3.0					
Cobalt	0.012	0.013– 0.050					
Iron	9.6	5.4– 14					
Germanium	0.035	0.045– 0.065					
Rubidium	0.083	0.007– 0.096					
Zirconium	0.062	0.020– 0.42					

## SPECIMEN DATA

### COMMENTS:

Date Collected: 8/13/2008

Date Received: 8/18/2008

Date Completed: 8/20/2008

Methodology: ICP-MS

Sample Size: 0.203 g

Sample Type: Head

Hair Color: Brown

Treatment:

Shampoo: Avalon

V06.99

## RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	23.4	4– 30
Ca/P	2.38	1– 12
Na/K	0.584	0.5– 1.0
Zn/Cu	9.29	4– 20
Zn/Cd	> 999	> 800

## **Health history for hair test 205**

- 1). Current symptoms: severe adrenal fatigue (very low blood pressure, 40 lb weight loss in 5 months, diarrhea, etc), cortisol levels low-normal, low estrogen, even lower progesterone (making me estrogen dominant). Muscle trembling, pain, twitching, insomnia, extreme fatigue, clumsiness. Peripheral neuropathy since age 33.
- 2). Country of origin-Czechoslovakia. Amalgam fillings (at least 3-5) put in sometime during pre-adolescence and adolescent years. 1993-at least one amalgam filling replaced with white composite filling. 3 wisdom teeth removed. All during pregnancy (in US). Last wisdom tooth removed in 2003 with partial root left in due to inaccessibility (and most likely due to poor experience of the dentist, not done by surgeon). 2003-2006 two amalgam filling removed and teeth crowned. 2006 one amalgam filling removed, root canal and crown done on that tooth. All amalgam removal was done the 'traditional' way, no protection. One remaining molar with amalgam filling still in.
- 3). Due to current medical issues-unable to drive or handle any kind of stress (cannot tolerate loud noises, fast movements). Dental cleanup not done yet.
- 4) Mother-I'm sure she had amalgam fillings put it before I was born, don't know further details.
- 5). One flue shot years ago, last vaccination in 1995 for tetanus.
- 6). Supplements: started taking only a few weeks ago (4-5). C 3g, B-100 3 tablets, zinc 50 mg, B6 200mg, CoQ10 100mg, Acetyl-L-Carnitine 500 mg, Mg 400 mg, Ca 300mg (every other day), flax oil, fish oil, chromium picolinate 600 mg. A few days before the test, I believe I started taking adrenal rebuilder from [www.adrenalfatigue.org](http://www.adrenalfatigue.org) (but don't see much improvement yet).
- 7). I am puzzled over high Arsenic, I do not know what the source may be other than I walk barefoot on our hardwood floors. This house was built in 1995. Can it be from wood preservative?  
Also, I am quite worried about high Uranium. All I can think of is Chernobyl disaster in 1986. I was barely 15 when it happened and the radiation was detected throughout the whole Europe. How do I deal with this? Chelators for radioactive elements?
- 8). South Jordan, Utah, (suburb of Salt Lake City)