

HAIR ELEMENTS



SEX: Female
AGE: 36

Boulder, CO 80304 U.S.A.

2/2004

(AT THAT TIME)

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	6.0	< 7.0	██████████	
Antimony	0.084	< 0.050	██████████	
Arsenic	0.064	< 0.060	██████████	
Beryllium	< 0.01	< 0.020		
Bismuth	0.074	< 0.10	██████████	
Cadmium	0.21	< 0.10	██████████	
Lead	0.85	< 1.0	██████████	
Mercury	0.86	< 1.1	██████████	
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.007	< 0.060	██████████	
Nickel	2.7	< 0.40	██████████	██████████
Silver	2.0	< 0.15	██████████	██████████
Tin	0.79	< 0.30	██████████	██████████
Titanium	0.53	< 1.0	██████████	
Total Toxic Representation			██████████	██████████

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	64 th	97.5 th
Calcium	815	300- 1200			██████████		
Magnesium	28	35- 120		██████████			
Sodium	11	12- 90		██████████			
Potassium	13	8- 38			██████████		
Copper	44	12- 35			██████████		
Zinc	180	140- 220			██████████		
Manganese	0.28	0.15- 0.65			██████████		
Chromium	0.53	0.20- 0.40			██████████		
Vanadium	0.025	0.018- 0.065			██████████		
Molybdenum	0.042	0.028- 0.056			██████████		
Boron	0.84	0.30- 2.0			██████████		
Iodine	0.72	0.25- 1.3			██████████		
Lithium	0.008	0.007- 0.023			██████████		
Phosphorus	127	160- 250	██████████				
Selenium	1.0	0.95- 1.7		██████████			
Strontium	1.5	0.50- 7.6			██████████		
Sulfur	44600	44500- 52000		██████████			
Barium	0.68	0.26- 3.0			██████████		
Cobalt	0.022	0.013- 0.050			██████████		
Iron	9.2	5.4- 14			██████████		
Germanium	0.060	0.045- 0.065			██████████		
Rubidium	0.023	0.007- 0.096			██████████		
Zirconium	0.18	0.020- 0.42			██████████		

SPECIMEN DATA

COMMENTS:

Date Collected: 2/13/2004

Date Received: 2/17/2004

Date Completed: 2/18/2004

Methodology: ICP-MS

Sample Size: 0.196 g

Sample Type: Head

Hair Color: Brown

Treatment:

Shampoo:

V06.99

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	29.1	4- 30
Ca/P	6.42	1- 12
Na/K	0.846	0.5- 10
Zn/Cu	4.09	4- 20
Zn/Cd	857	> 800



PATIENT: Number 618
 SEX: Female
 AGE: 45

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.3	< 7.0	
Antimony (Sb)	0.012	< 0.050	
Arsenic (As)	0.035	< 0.060	
Barium (Ba)	0.06	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.007	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.43	< 0.60	
Mercury (Hg)	1.7	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.029	< 0.060	
Nickel (Ni)	0.08	< 0.30	
Silver (Ag)	0.04	< 0.15	
Tin (Sn)	0.43	< 0.30	
Titanium (Ti)	0.23	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)	199	300- 1200	
Magnesium (Mg)	54	35- 120	
Sodium (Na)	30	20- 250	
Potassium (K)	67	8- 75	
Copper (Cu)	10	11- 37	
Zinc (Zn)	150	140- 220	
Manganese (Mn)	0.10	0.08- 0.60	
Chromium (Cr)	0.44	0.40- 0.65	
Vanadium (V)	0.084	0.018- 0.065	
Molybdenum (Mo)	0.088	0.020- 0.050	
Boron (B)	0.56	0.25- 1.5	
Iodine (I)	3.2	0.25- 1.8	
Lithium (Li)	0.004	0.007- 0.020	
Phosphorus (P)	135	150- 220	
Selenium (Se)	0.97	0.55- 1.1	
Strontium (Sr)	0.72	0.50- 7.6	
Sulfur (S)	48500	44000- 50000	
Cobalt (Co)	0.021	0.005- 0.040	
Iron (Fe)	7.4	7.0- 16	
Germanium (Ge)	0.031	0.030- 0.040	
Rubidium (Rb)	0.093	0.007- 0.096	
Zirconium (Zr)	0.035	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 5/28/2012	Sample Size: 0.195 g	Ca/Mg	3.69
Date Received: 6/1/2012	Sample Type: Head	Ca/P	1.47
Date Completed: 6/3/2012	Hair Color:	Na/K	0.448
Methodology: ICP/MS	Treatment:	Zn/Cu	15
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 618

1. **What are your current symptoms and health history?** Wow, way too long for this occasion, that's for sure. Basics are years of fatigue, candida, hormonal problems, get sick way too easily, adrenal fatigue, chronic pain. This was similar in 2004.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** I never grew any wisdom teeth. Had some baby molars (?) extracted when I was maybe in junior high or high school (2x). No root canals. I did have braces, also in junior high or high school. Had approx. 10-12 amalgams out in 2002 or 2003. Had a bad rxn (irritability, fatigue) to having the first one taken out by a mercury-incompetent "holistic" dentist (I swallowed a chunk!), so I had the rest done by someone else who I believe did it right, along with IV vitamin C from my doctor.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** See above. I now have several 95% gold inlays and crowns. (We did testing to see what I was compatible with.)
4. **What dentistry did your mother have at any time before or during pregnancy?** I think a few Hg fillings.
5. **What vaccinations have you had and when (including flu and especially travel shots)?** I was born in 66, had all the childhood vaccinations. Have had 1 flu shot- had a bad rxn (felt like I GOT the flu.) in maybe 2003 or 4 I had Hep B vaccine, but I'm pretty sure I insisted on the thimerosal-free version. (I was working in a hospital- I had to have it.)
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** I have no clue what I was taking in 2004!
7. **What is your age, height and weight?** At time of test, I was 36, 5'4", probably about 125-130 pounds.
8. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** I was in Boulder, CO at the time (had been there since 1998) but had previously lived in California and Massachusetts, so I'm not sure where I may have picked up what.