

SEX: Male AGE: 44

Toxic & Essential Elements; Hair

TOXIC METALS							
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th			
Aluminum	(AI)	1.8	< 7.0				
Antimony	(Sb)	< 0.01	< 0.066				
Arsenic	(As)	0.033	< 0.080				
Barium	(Ba)	0.28	< 1.0				
Beryllium	(Be)	< 0.01	< 0.020				
Bismuth	(Bi)	0.014	< 2.0	•			
Cadmium	(Cd)	0.019	< 0.065				
Lead	(Pb)	0.05	< 0.80				
Mercury	(Hg)	0.19	< 0.80				
Platinum	(Pt)	< 0.003	< 0.005				
Thallium	(TI)	< 0.001	< 0.002				
Thorium	(Th)	< 0.001	< 0.002				
Uranium	(U)	0.001	< 0.060	•			
Nickel	(Ni)	0.04	< 0.20				
Silver	(Ag)	0.01	< 0.08				
Tin	(Sn)	< 0.02	< 0.30				
Titanium	(Ti)	0.33	< 0.60				
Total Toxic Representation		·					

ESSENTIAL AND OTHER ELEMENTS									
		RESULT	REFERENCE	PERCENTILE					
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th					
Calcium	(Ca)	276	200- 750						
Magnesium	(Mg)	26	25- 75						
Sodium	(Na)	100	20- 180						
Potassium	(K)	27	9- 80	•					
Copper	(Cu)	11	11- 30						
Zinc	(Zn)	210	130- 200						
Manganese	(Mn)	0.06	0.08- 0.50						
Chromium	(Cr)	0.41	0.40- 0.70						
Vanadium	(V)	0.041	0.018- 0.065						
Molybdenum	(Mo)	0.024	0.025- 0.060						
Boron	(B)	0.64	0.40- 3.0						
lodine	(I)	1.8	0.25- 1.8						
Lithium	(Li)	< 0.004	0.007- 0.020						
Phosphorus	(P)	138	150- 220						
Selenium	(Se)	0.93	0.70- 1.2	•					
Strontium	(Sr)	0.46	0.30- 3.5						
Sulfur	(S)	50600	44000- 50000						
Cobalt	(Co)	0.004	0.004- 0.020						
Iron	(Fe)	6.3	7.0- 16						
Germanium	(Ge)	0.025	0.030- 0.040						
Rubidium	(Rb)	0.037	0.011- 0.12	•					
Zirconium	(Zr)	0.066	0.020- 0.44						

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	10.6	4- 30	
Date Collected: 02/02/2013	Sample Size: 0.201 g	Ca/P	2	0.8- 8	
Date Received: 02/05/2013	Sample Type: неаd	Na/K	3.7	0.5- 10	
Date Completed: 02/06/2013	Hair Color: Brown	Zn/Cu	19.1	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shamnoo Pantene	'			

Health history for hair test 723

- 1. What are your current symptoms and health history?
 - Chronic Fatigue Symptoms for at least 20 years, becoming more severe over time (frequently lethargic and apathetic, low mental clarity and endurance)
 - Chronic Epstein Barr (acute infections occur at least a couple times a year, verified by blood test)
 - Tested positive for Lupus anti-dsDNA, but negative for ANA in 2011
 - Possible Chronic Lyme (contracted and treated for Lyme in 1994). Treated for Chronic Lyme with massive oral antibiotics program for 1 1/2 years (Jemsek protocol).
 - Chronically low WBC count (3 to 3.4 range for about 15 years or more)
 - Dry eyes
 - Tinnitus
 - Mild Depression
 - Apathy
 - · Bouts of anger
 - Brain fog, confusion, sleepiness, especially after eating rich, heavy foods
 - Extreme fatigue upon waking in the morning. Takes a good hour to get going.
 - Periodic numbness in extremities, especially during exercise
 - · Lack of muscle endurance
 - Always had a weak stomach growing up (nauseous in cars, throw-up frequently). Got better in my 30's.
 - Father diagnosed with and died of Alzheimer's disease.
- 2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)
 - Two amalgam fillings at 28, which were replaced by composites about 10 years later
- 3. What dental work do you currently have in place? What part of the dental cleanup have you completed?
 - Two composite fillings. Amalgams removed by regular dentist.
 - 4. What dentistry did your mother have at any time before or during pregnancy?
 - Multiple amalgam fillings that she had since she was a kid.
- 5. What vaccinations have you had and when (including flu and especially travel shots)?
 - Since 1990, multiple trips overseas requiring tetanus, hepatitis, etc. shots. Last trip was to Haiti in 2011.
- 6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?

- Various vitamins, including B, C, D, E, Selenium, Lithium, Q10, Magnesium, Glutamine, Lysine, Fish Oil, Zinc, Folic Acid.
- About 15 rounds of Cutler protocol using DMSA and ALA since December 2011.
- 7. What is your age, height and weight?
 - 44 years old. 6 feet tall. 165 pounds.
- 8. Other information you feel may be relevant?
 - Try to exercise as much as possible. Used to run 3 to 4 times a week (4 miles or more at a time). Lift weights 2 to 3 times per week. In the past 4 months, there has been a noticeable drop in energy and endurance. Only run about once or twice a month and struggle to lift 2 or 3 times per week.
 - Appear to feel generally better in the summer over the winter. Spend more time in the sun. Supplement more vitamin D in winter.
 - Feel better for a few hours after exercising
 - Brain fog frequent, short term memory poor. Have not worked full time for 2 years.
 - Generally eat very well (vegetables, salads, brown rice, quinoa, red potatoes, etc.) and don't eat out or have sugar/processed foods. When I do go off this healthy diet, I usually pay for it with increased fatigue and brain issues.
- 9. What is your location city & country (so that we can learn where certain toxins are more prevalent).
 - Central New Jersey