

SEX: Male
AGE: 39

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	2.5	< 7.0	
Antimony (Sb)	0.010	< 0.066	
Arsenic (As)	0.11	< 0.080	
Barium (Ba)	0.14	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	< 0.01	< 0.80	
Mercury (Hg)	2.8	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.047	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	0.06	< 0.08	
Tin (Sn)	0.03	< 0.30	
Titanium (Ti)	0.42	< 0.60	
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)	775	200- 750	
Magnesium (Mg)	38	25- 75	
Sodium (Na)	32	20- 180	
Potassium (K)	< 3	9- 80	
Copper (Cu)	33	11- 30	
Zinc (Zn)	220	130- 200	
Manganese (Mn)	0.10	0.08- 0.50	
Chromium (Cr)	0.32	0.40- 0.70	
Vanadium (V)	0.046	0.018- 0.065	
Molybdenum (Mo)	0.035	0.025- 0.060	
Boron (B)	1.3	0.40- 3.0	
Iodine (I)	0.56	0.25- 1.8	
Lithium (Li)	0.013	0.007- 0.020	
Phosphorus (P)	164	150- 220	
Selenium (Se)	1.2	0.70- 1.2	
Strontium (Sr)	3.0	0.30- 3.5	
Sulfur (S)	48800	44000- 50000	
Cobalt (Co)	0.005	0.004- 0.020	
Iron (Fe)	7.0	7.0- 16	
Germanium (Ge)	0.026	0.030- 0.040	
Rubidium (Rb)	0.012	0.011- 0.12	
Zirconium (Zr)	0.042	0.020- 0.44	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 12/10/2014	Sample Size: 0.134 g	Ca/Mg	20.4
Date Received: 12/17/2014	Sample Type: Head	Ca/P	4.73
Date Completed: 12/27/2014	Hair Color:	Na/K	10.7
Methodology: ICP/MS	Treatment:	Zn/Cu	6.67
	Shampoo:	Zn/Cd	> 999
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Hair test 1063

1. Thyroid Cancer in 2012. Chronic Fatigue Syndrome since the end of 2013, with symptoms for many years (since my 20s IBS and mild fatigue) but everything worsened in 2011 after a trip to China by the end of 2010. In treatment since June 2014 with improvements (anti-enterovirus, including stuff that (I did not know) that is also helpful when you are mercury poisoned); since December, methylation support. Currently 50% - 60% functionality, with crashes (delayed fatigue) if I overdo, dependent of treatment and with other CFS symptoms as well.

What it seems to be different from other CFS patients is that I have periods of hyperactivity, alternated with crashes for overdoing. My crashes last no longer than 24 hours unless I overdo too much.

My markers, beyond this test are: Cd4/Cd8 inverted ratio (cd4 moderately low), IgG food intolerances, IgG for Candida moderately high; high titers (Chronic infections) for Coxsackie B2 and B4 and Echo 30, CMV, CPN. Markers for inflammatory bowel disease: lactoferrin and high secretory IgA. Several markers of malabsorption and unbalanced intestinal flora, and some metabolism problems. I can send these test if this might help.

2. Braces for many years 14 y.o-17 y.o, and then again by 2006-2009 in my thirties. Two wisdom teeth removed. Amalgam (1 or two) at 17.y.o., probably unsafe removal during my thirties. I developed a moderately-severe fistula in the gum just below where the amalgam was placed. My gums are in general receded.

3. Currently 2 metal filings but no mercury. Likely an unsafe amalgam removal a few years ago.

4. My mother had amalgams before she got pregnant.

5. Regular vaccinations in my childhood.

6. I was supporting zinc (15 mg), selenium (200-300 mcg), fish oil, betaine hcl, vit c, vit e, oxymatrine, astragalus, licorice, l-glutamine, mb12 1000, folic acid 800, levothyroxine, probiotics. These are still part of my protocol to which I added magnesium, potassium chromium, inosine, coq10.

7. 39 y.o., 70 kgs., 179 cms.

8. I recall an episode of playing with a broken mercury thermometer in my childhood, but I am not sure about it.

9. I live in Santiago, Chile. I feel better near the beach (oxygenation?)