



PATIENT: % (%
 SEX: Female
 AGE: 43

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	5.5	< 12	
Antimony (Sb)	0.010	< 0.060	
Arsenic (As)	0.075	< 0.090	
Barium (Ba)	1.2	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.010	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.08	< 1.0	
Mercury (Hg)	0.15	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.004	< 0.060	
Nickel (Ni)	0.02	< 0.40	
Silver (Ag)	0.01	< 0.10	
Tin (Sn)	0.09	< 0.30	
Titanium (Ti)	0.07	< 1.3	
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)	648	475- 1500	
Magnesium (Mg)	48	45- 180	
Sodium (Na)	130	80- 450	
Potassium (K)	130	28- 160	
Copper (Cu)	8.7	11- 30	
Zinc (Zn)	130	130- 200	
Manganese (Mn)	0.16	0.15- 0.65	
Chromium (Cr)	0.29	0.40- 0.65	
Vanadium (V)	0.029	0.018- 0.065	
Molybdenum (Mo)	0.028	0.040- 0.10	
Boron (B)	5.6	0.40- 4.0	
Iodine (I)	2.0	0.25- 1.8	
Lithium (Li)	0.040	0.008- 0.030	
Phosphorus (P)	181	250- 500	
Selenium (Se)	1.1	0.80- 1.3	
Strontium (Sr)	1.6	1.0- 8.0	
Sulfur (S)	45000	42000- 48000	
Cobalt (Co)	0.002	0.006- 0.035	
Iron (Fe)	5.9	7.0- 16	
Germanium (Ge)	0.023	0.030- 0.040	
Rubidium (Rb)	0.16	0.030- 0.25	
Zirconium (Zr)	0.33	0.040- 1.0	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 06/09/2017		Ca/Mg	13.5
Date Received: 06/13/2017		Ca/P	3.58
Date Completed: 06/19/2017		Na/K	1
Methodology: ICP/MS		Zn/Cu	14.9
Sample Size: 0.199 g	Sample Type: Pubic	Zn/Cd	> 999
Hair Color: Black	Treatment:		
Shampoo: Kiss My Face			
		RANGE	
		4- 30	
		1- 12	
		0.5- 10	
		4- 20	
		> 800	

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	4.8	< 12	
Antimony (Sb)	0.012	< 0.060	
Arsenic (As)	0.078	< 0.090	
Barium (Ba)	1.2	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.033	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.14	< 1.0	
Mercury (Hg)	0.07	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.002	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.019	< 0.060	
Nickel (Ni)	0.15	< 0.40	
Silver (Ag)	0.01	< 0.10	
Tin (Sn)	0.10	< 0.30	
Titanium (Ti)	0.35	< 1.3	
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)	526	475- 1500			
Magnesium (Mg)	48	45- 180			
Sodium (Na)	100	80- 450			
Potassium (K)	170	28- 160			
Copper (Cu)	11	11- 30			
Zinc (Zn)	150	130- 200			
Manganese (Mn)	0.14	0.15- 0.65			
Chromium (Cr)	0.38	0.40- 0.65			
Vanadium (V)	0.023	0.018- 0.065			
Molybdenum (Mo)	0.034	0.040- 0.10			
Boron (B)	15	0.40- 4.0			
Iodine (I)	1.6	0.25- 1.8			
Lithium (Li)	< 0.004	0.008- 0.030			
Phosphorus (P)	201	250- 500			
Selenium (Se)	1.1	0.80- 1.3			
Strontium (Sr)	2.0	1.0- 8.0			
Sulfur (S)	42700	42000- 48000			
Cobalt (Co)	0.004	0.006- 0.035			
Iron (Fe)	6.0	7.0- 16			
Germanium (Ge)	0.030	0.030- 0.040			
Rubidium (Rb)	0.20	0.030- 0.25			
Zirconium (Zr)	0.33	0.040- 1.0			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 09/26/2018	Sample Size: 0.197 g	Ca/Mg	11	4- 30
Date Received: 10/01/2018	Sample Type: Pubic	Ca/P	2.62	1- 12
Date Completed: 10/04/2018	Hair Color: Black	Na/K	0.588	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	13.6	4- 20
	Shampoo: Castille Soap	Zn/Cd	> 999	> 800

Health history for hair test 1341

1) What are your current symptoms and health history?

I've had moderate to severe fatigue for 10 yrs almost which correlated with low cortisol levels. All sex hormones were very low 1.5 yrs ago which just dropped all of a sudden. Still having low energy, lots of hair fallout which started 3 yrs ago. I've always had low iron levels and then about 3 yrs ago serum iron (160) and percent saturation (51%) went high but ferritin (62) remains low. Hemoglobin is still lowish (12.5) compared to the amount of iron that supposedly is in my body. Have issues with fat metabolism somewhere it seems as total cholesterol is always lowish..138 ish. Ringing in the ears that started about 2 yrs ago when I started taking liquid pregnenolone and DHEA and even after stopping the supplements, the ringing stayed but it is intermittent. Ringing gets worse after eating. Stool test in past showed excessive enterobacter species. High blood glucose esp fasting (128-133) which does not at all correlate with eating habits. Aching legs with prolonged standing and spider veins.

2) Dental history (wisdom teeth removed? yes all 4 taken out 25 yrs ago

First root canal placed? no root canals thank God!

Braces? 25 yrs ago for 2 yrs almost

First amalgam etc...) NONE

3) What dental work do you currently have in place? only a clear composite for a tooth that had chipped

What part of the dental cleanup have you completed? have decent teeth with no cavities and little plaque.

4) What dentistry did your mother have at any time before or during pregnancy?

none

5) What vaccinations have you had and when (including flu and especially travel shots)?

HEP A and B shots in 96, MMR shot in 1996, tetanus shot in 2010 from which I became very ill as I already had adrenal fatigue to begin with at that time. My cortisol became very low and I could hardly sit up at that time. The shot actually gave me a fever of 101 for a week and tight neck etc. Diphtheria shot 17 yrs ago or so, no flu shots since 2008 or so.

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

lithium orotate 5 mg for last 2-3 months almost daily as MMA was high on Oats test but in serum b12 was > 2000, Active R5P b2 50 mg twice a day, vit c 500 mg a day, vit E tocotrienol, selenium 200 mcg daily for a year now as micronutrient showed low selenium last year, pantethine 500 mg twice a day, daily active b complex, molybdenum 50-100 mcg for about 2 months, zinc glycinate 50 mg every day all last year to once every 3 days, chromium 200 mcg every day since last year and it's still low like it made no difference at all on micronutrient test, started p5p b6 50 to 100 mg every day since last month. I was on a gut cleansing protocol for 2 months so took olive leaf, oregano oil, uva ursi, and biocidin drops. One antimicrobial taken at a time for 3 times a day and then switched to another antimicrobial.

7) Other information you feel may be relevant? I am hetero for 1298 C SNP, hetero for all CBS SNPS, diagnosed with celiac about 8 yrs ago and been on strict gluten free diet

8) What is your location - city & country (so that we can learn where certain toxins are more prevalent). Charlotte USA

FOLLOW-UP HAIR TEST COMMENTS:

Can you kindly post a follow up test to hair test 1341 done last year please.

I am having hair loss and fatigue. High fasting insulin and blood sugar which is not diet related.

High fatty acids on organic test. Ringing in the left ear and reoccurring yeast infections.

I have no dental amalgams.

I have had a lot of vaccinations in the past including Hep B, MMR, tetanus, H1N1, maybe diptheria.

HEp B and MMR was 20 yrs ago. Tetanus about 10 yrs ago and H1N1 about 7 yrs ago.

I reside near Charlotte, NC Thank you kindly!