HAIR ELEMENTS



LAB#:

PATIENT: Number 332

LOCATION: New England, USA

SEX: Male AGE: 15

POTENTIALLY TOXIC ELEMENTS						
TOXIC	RESULT	REFERENCE	PERCENTILE			
ELEMENTS	μg/g	RANGE	68	8 th	95 th	
Aluminum	30	< 8.0				
Antimony	0.046	< 0.066				
Arsenic	0.069	< 0.080				
Barium	4.4	< 0.75				
Beryllium	0.067	< 0.020				
Bismuth	0.020	< 2.0	•			
Cadmium	0.090	< 0.060				
Lead	9.7	< 1.0				
Mercury	0.29	< 0.40				
Platinum	< 0.003	< 0.005				
Thallium	< 0.001	< 0.002				
Thorium	0.002	< 0.002				
Uranium	0.085	< 0.060				
Nickel	0.48	< 0.20				
Silver	0.29	< 0.10				
Tin	0.39	< 0.30				
Titanium	0.77	< 0.60				
Total Toxic Represen	tation					
		ESSENTIAL	AND OTHER ELEMEN	тѕ		
	RESULT	REFERENCE		PERCENTI	LE	
ELEMENTS	μg/g	RANGE	2.5 th 16 th	50 th	84	4 th 97.5 th
Calcium	584	200- 700				
Magnesium	98	18- 70				
Sodium	18	20- 200				······
Potassium	6	9- 80				······
Copper	840	11- 32				
Zinc	140	150- 230				
Manganese	1.9	0.08- 0.50				
Chromium	0.32	0.40- 0.70				
Vanadium	0.066	0.020- 0.075				
Molybdenum	0.041	0.030- 0.060		•		
Boron	0.71	0.34- 3.0				
Iodine	6.1	0.25- 1.3				
Lithium	0.015	0.007- 0.020				
Phosphorus	179	150- 220		•		
Selenium	0.80	0.70- 1.2				
Strontium	2.4	0.30- 3.2				
Sulfur	43900	44000- 50000				
Cobalt	0.067	0.004- 0.020				
Iron	40	7.0- 16				
Germanium	0.035	0.030- 0.040		•		
Rubidium	0.024	0.009- 0.090		•		
Zirconium	0.078	0.047- 0.70				
SPECIMEN DATA					RATIOS	
COMMENTS: Resu						EXPECTED
Date Collected: 10		Sample Size:	0.196 g	ELEMENTS	RATIOS	RANGE
	2/15/2009	Sample Type:	Head	Ca/Mg	5.96	4- 30
Date Completed: 12/21/2009		Hair Color:		Ca/P	3.26	0.8- 8
Client Reference:		Treatment:		Na/K	3	0.5- 10
	P-MS	Shampoo:	Rainforest	Zn/Cu	0.167	4- 20
ivioniodology.	110	onampoo.	V010.08	Zn/Cd	> 999	> 800
L			\$3.3.00	Zii/ Cu	, 999	



PATIENT: Number 332 B

SEX: Male AGE: 18

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum	(AI)	11	< 7.0	
Antimony	(Sb)	0.038	< 0.066	
Arsenic	(As)	0.041	< 0.080	
Barium	(Ba)	0.12	< 1.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.014	< 2.0	•
Cadmium	(Cd)	0.017	< 0.065	
Lead	(Pb)	0.66	< 0.80	
Mercury	(Hg)	0.42	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(TI)	< 0.001	< 0.002	
Thorium	(Th)	< 0.001	< 0.002	
Uranium	(U)	0.007	< 0.060	
Nickel	(Ni)	0.06	< 0.20	
Silver	(Ag)	0.07	< 0.08	
Tin	(Sn)	0.19	< 0.30	
Titanium	(Ti)	0.29	< 0.60	
Total Toxic Represent	ation	•		

ESSENTIAL AND OTHER ELEMENTS					
	RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th		
Calcium (Ca)	211	200- 750			
Magnesium (Mg)	9	25- 75			
Sodium (Na)	2	20- 180			
Potassium (K)	< 3	9- 80			
Copper (Cu)	78	11- 30			
Zinc (Zn)	190	130- 200			
Manganese (Mn)	0.07	0.08- 0.50			
Chromium (Cr)	0.35	0.40- 0.70			
Vanadium (V)	0.021	0.018- 0.065			
Molybdenum (Mo)	0.11	0.025- 0.060			
Boron (B)	0.66	0.40- 3.0			
lodine (I)	0.60	0.25- 1.8	•		
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	174	150- 220			
Selenium (Se)	1.5	0.70- 1.2			
Strontium (Sr)	0.39	0.30- 3.5			
Sulfur (S)	47100	44000- 50000	•		
Cobalt (Co)	0.008	0.004- 0.020	•		
Iron (Fe)	6.7	7.0- 16			
Germanium (Ge)	0.031	0.030- 0.040			
Rubidium (Rb)	0.004	0.011- 0.12			
Zirconium (Zr)	0.020	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
		Ca/Mg	23.4	4- 30
Date Collected: 12/06/2012	Sample Size: 0.2 g	Ca/P	1.21	0.8- 8
Date Received: 12/11/2012	Sample Type: Head	Na/K	0.667	0.5- 10
Date Completed: 12/12/2012	Hair Color: Brown	Zn/Cu	2.44	4- 20
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800
	Shampoo: 365 Fragrance Free	·		•

Health history for hair test 332

- 1.) 15 year old male with symptoms of adrenal fatigue and cortisol imbalance; cold hands and cold feet; purple coloring of hands when cold; depression; anxiety; decreased cognitive function; learning issues involving graphomotor function: handwriting, spelling, sequential ordering, and phonological processing; joint pain and swelling (symmetrical and especially prevalent in knees).
- 2.) No cavities, no fillings; wore braces for two years (upper and lower); no root canal or wisdom teeth removal.
- 3.) N/A
- 4.) Mother had full mouth of amalgam--approximately 12--breastfed.
- 5.) Full US vaccination schedule until 1 yr. 6 month (from 1994-1996)
 Hepatitis B
 DPT/DT/DTaP
 Polio
 H. Influenza type b
 MMR
- 6.) Multiple vitamins and mineral supplement, extra B's and EFA's
- 7.) Age 15; 5'8"; 130 lbs
- 8.) Though gifted intellectually, experienced reading delays. Can read now, but have tremendous difficulty with writing, spelling, and remembering basic math facts. As a child reacted adversely to food colorings (headaches and explosive behavioral changes); now sometimes sensitive to fumes and fragrances (headaches).

Adrenal and thyroid function seemed to decline at onset of puberty and tanked this past year. Always a very active kid, very athletic, exceptionally smart but with dyslexic and dysgraphic issues. Now experiencing depression and anxiety issues and very decreased stamina. Fatigue, muscle and joint issues are preventing athletic participation.

9.) New England, USA

Follow-up health history for hair test 332

1. What are your current symptoms and health history?

18 year old male with symptoms of fatigue; depression; anxiety; fear; panic; lack of motivation; difficulties sleeping

2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)

two composite fillings Aug, 2012.

3. What dental work do you currently have in place? What part of the dental clean-up have you completed?

none

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

Mother with approx. 12 amalgam fillings - breast fed as an infant

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

Full US vaccination schedule until 1 yr. 6 month (from 1994-1996)

Hepatitis B

DPT/DT/DT aP

Polio

H. Influenza type b MMR

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

Ca citrate 2000g

Mg citrate 1800g

Vit C 2000g

B50 twice/day

milk thistle extract

Vit E

Vit D

Fermented Cod Liver oil

Krill Oil

7. What is your age, height and weight?

18 yrs, 150 lbs 5'10"

- 8. Other information you feel may be relevant?
- 9. What is your location city & country (so that we can learn where certain toxins are more prevalent).

Greene, Maine