# HAIR ELEMENTS



**PATIENT: Number 378 Test 1** 

SEX: Male AGE: 3

LOCATION: Allentown, PA - USA

POTENTIALLY TOXIC ELEMENTS						
TOXIC	RESULT	REFERENCE	PERCENTILE			
ELEMENTS	μg/g	RANGE	68 <sup>t</sup>			
Aluminum	7.3	< 8.0				
Antimony	0.13	< 0.066				
Arsenic	0.050	< 0.080		·····		
Barium	0.19	< 0.50		·····		***
Beryllium	< 0.01	< 0.020		·····		***
Bismuth	0.10	< 2.0	•	·····		***
Cadmium	0.016	< 0.070	_			
Lead	0.23	< 1.0				***
Mercury	0.09	< 0.40		·····		
Platinum	< 0.003	< 0.005		·····		
Thallium	< 0.001	< 0.002		······		
Thorium	< 0.001	< 0.002				***
Uranium	0.027	< 0.060				
Nickel	1.5	< 0.20				
Silver	0.05	< 0.20				
Tin	0.17	< 0.30				
Titanium	1.2	< 1.0				***
Total Toxic Representa	ation	•				
•		ESSENTIAL	AND OTHER ELEMENTS	S		
	RESULT	REFERENCE		PERCENTI	F	
ELEMENTS		RANGE	2.5 <sup>th</sup> 16 <sup>th</sup>	50 <sup>th</sup>		4 <sup>th</sup> 97.5 <sup>th</sup>
Calcium	μg/g 120	125- 370	2.0			4 07.0
Magnesium	22	12- 30				
Sodium	7	20- 200			<del></del>	
Potassium	< 3	12- 200				••••••••••••••••••••••••••••••••••••••
Copper	25	11- 18				
Zinc	170	100- 190				
Manganese	0.24	0.10- 0.50				
Chromium	0.71	0.43- 0.80				
Vanadium	0.018	0.030- 0.10				
Molybdenum	0.046	0.050- 0.13				
Boron	0.19	0.70- 5.0				
Iodine	0.19	0.25- 1.3				
Lithium	0.010	0.007- 0.020				
Phosphorus	189	150- 220				
Selenium	0.77	0.70- 1.1				
Strontium	0.11	0.16- 1.0				
Sulfur	46300	45500- 53000				
Cobalt	0.031	0.004- 0.020				
Iron	15	7.0- 16				
Germanium	0.035	0.030- 0.040				
Rubidium	0.007	0.016- 0.18				
Zirconium	2.3	0.040- 1.0				
Ziroingiii		PECIMEN DATA			DATIOS	
COMMENTS	COMMENTS: Insufficient hair to repeat				RATIOS	EVDECTED
			0.0 -	ELEMENTS	RATIOS	EXPECTED
<u> </u>		Sample Size:	0.2 g	ELEMENTS		RANGE
	29/2009	Sample Type:	Head	Ca/Mg	5.45	4- 30
		Hair Color:	Blond	Ca/P	0.635	0.8- 8
Client Reference: Treatment:			Na/K	2.33	0.5- 10	
Methodology: ICP-MS Shampoo:		Child Earths Best		6.8	4- 20	
1			V010.08	Zn/Cd	> 999	> 800

### HAIR ELEMENTS



PATIENT: Number 378 Test 2

SEX: Male AGE: 5

LOCATION: Allentown, PA - USA

POTENTIALLY TOXIC ELEMENTS							
TOXIC	RESULT	REFERENCE	PERCENTILE				
ELEMENTS	μg/g	RANGE		68 <sup>t</sup>	h	95 <sup>th</sup>	
Aluminum	4.4	< 8.0					
Antimony	0.015	< 0.066	-		•		
Arsenic	0.020	< 0.080		)			
Barium	0.05	< 0.50	•				
Beryllium	< 0.01	< 0.020					
Bismuth	0.071	< 2.0	•				
Cadmium	< 0.009	< 0.070					
Lead	0.18	< 1.0					
Mercury	0.03	< 0.40	•				
Platinum	< 0.003	< 0.005					
Thallium	0.001	< 0.002	•				
Thorium	< 0.001	< 0.002					
Uranium	0.013	< 0.060			<u>-</u>		
Nickel	0.06	< 0.20					
Silver	0.05	< 0.20					
Tin	0.20	< 0.30					
Titanium	3.7	< 1.0					
Total Toxic Representa	ation						
		ESSENTIAL	. ANI	D OTHER ELEMENTS	S		
	RESULT	REFERENCE			PERCENTI	LE	
ELEMENTS	μg/g	RANGE	2.5	5 <sup>th</sup> 16 <sup>th</sup>	50 <sup>th</sup>	84	4 <sup>th</sup> 97.5 <sup>th</sup>
Calcium	115	125- 370				-	
Magnesium	16	12- 30					
Sodium	27	20- 200					
Potassium	5	12- 200					
Copper	13	11- 18			•		
Zinc	490	100- 190					
Manganese	0.06	0.10- 0.50					······
Chromium	0.32	0.43- 0.80					•
Vanadium	0.012	0.030- 0.10	······				
Molybdenum	0.055	0.050- 0.13					
Boron	0.32	0.70- 5.0					•
Iodine	0.75	0.25- 1.3				-	•
Lithium	0.004	0.007- 0.020					
Phosphorus	197	150- 220			_		_
Selenium	0.64	0.70- 1.1					
Strontium	0.10	0.16- 1.0					
Sulfur	48000	45500- 53000			•		
Cobalt	0.003	0.004- 0.020					
Iron	5.5	7.0- 16					
Germanium	0.035	0.030- 0.040			•		•
Rubidium	0.007	0.016- 0.18					
Zirconium	0.53	0.040- 1.0					
		PECIMEN DATA				RATIOS	
COMMENTS:	COMMENTS:						EXPECTED
	Date Collected: 5/20/2010		ο.	.197 g	ELEMENTS	RATIOS	RANGE
Date Received: 5/24/2010		Sample Size: Sample Type:		ead	Ca/Mg	7.19	4- 30
•		Hair Color:			Ca/Ng Ca/P	0.584	0.8- 8
Client Reference: 1228851		Treatment:	Ca/P     Na/K		5.4	0.5- 10	
		Shampoo:			37.7	4- 20	
Methodology: ICP-MS		snampou.	נים	V010.08	Zn/Cd	> 999	> 800
	voto.co Zin/ed >333						



**PATIENT: Number 378 Test 3** 

**SEX: Male** AGE: 6

# Toxic & Essential Elements; Hair

TOXIC METALS					
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>	
Aluminum	(AI)	3.6	< 8.0		
Antimony	(Sb)	0.031	< 0.066		
Arsenic	(As)	0.50	< 0.080		
Barium	(Ba)	0.25	< 0.75		
Beryllium	(Be)	< 0.01	< 0.020		
Bismuth	(Bi)	0.029	< 2.0	•	
Cadmium	(Cd)	0.039	< 0.070		
Lead	(Pb)	0.29	< 1.0		
Mercury	(Hg)	0.08	< 0.40		
Platinum	(Pt)	< 0.003	< 0.005		
Thallium	(TI)	< 0.001	< 0.002		
Thorium	(Th)	< 0.001	< 0.002		
Uranium	(U)	0.029	< 0.060		
Nickel	(Ni)	0.08	< 0.20		
Silver	(Ag)	0.18	< 0.14		
Tin	(Sn)	0.26	< 0.30		
Titanium	(Ti)	1.1	< 0.70		
Total Toxic Representa	tion				

Total Toxio Hoprocontati	011						
ESSENTIAL AND OTHER ELEMENTS							
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>			
Calcium	(Ca)	65	160- 500				
Magnesium	(Mg)	52	12- 50				
Sodium	(Na)	31	20- 200				
Potassium	(K)	14	12- 140				
Copper	(Cu)	15	11- 32				
Zinc	(Zn)	580	110- 190				
Manganese	(Mn)	0.15	0.08- 0.50	•			
Chromium	(Cr)	0.35	0.40- 0.70				
Vanadium	(V)	0.036	0.025- 0.10				
Molybdenum	(Mo)	0.097	0.040- 0.090				
Boron	(B)	0.33	0.50- 3.5				
Iodine	(1)	2.1	0.25- 1.3				
Lithium	(Li)	0.070	0.007- 0.020				
Phosphorus	(P)	172	150- 220				
Selenium	(Se)	2.2	0.70- 1.1				
Strontium	(Sr)	0.20	0.21- 2.1				
Sulfur	(S)	51600	44000- 51000				
Cobalt	(Co)	0.009	0.004- 0.020	•			
Iron	(Fe)	8.9	7.0- 16				
Germanium	(Ge)	0.032	0.030- 0.040				
Rubidium	(Rb)	0.015	0.008- 0.080				
Zirconium	(Zr)	0.36	0.060- 0.70				

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	1.25	4- 30	
Date Collected: 8/2/2011	Sample Size: 0.2 g	Ca/P	0.378	0.8- 8	
Date Received: 8/8/2011	Sample Type: неаd	Na/K	2.21	0.5- 10	
Date Completed: 8/10/2011	Hair Color: Blond	Zn/Cu	38.7	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo Desert Essence	•			

#### Health history for hair test 265

#### 1) What are your current symptoms and health history?

He had a number of reactions, which lasted a month, to his 12 month vaccinations. To this day, his cervical gland remains swollen and visible. He has SPD, and 23 food allergies as confirmed by an IgG report done at ImmunoLabs. His emotional state fluctuates dramatically, although since going GFCF and corn-free in addition to removing the allergen foods, he has been slightly more consistent, however yeast appears to be a major battle, daily.

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

n/a

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

n/a

- 4) What dentistry did your mother have at any time before or during pregnancy? 7 amalgams
- 5) What vaccinations have you had and when (including flu and especially travel shots)?

All vaccinations up to the age of two, then we stopped. We did also give him the flu shot his first year of life, but have not gotten one since.

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

Cod Liver Oil

**Probiotics** 

Kirman Multi-vitamins

Zyme Prime, ZFP and No Phenol enzymes

**Biotin** 

Calcium/Magnesium Citrate

Vitamin C

Vitamin A

Zinc

No medications

- 7) What is your age, height and weight?
- 3.75 years, about 56 inches and 34 pounds
- 8) Other information you feel may be relevant?

We bought Andy Cutlers book and started gearing up for chelation, adding in Milk Thistle, Molybdenum, DMG and Taurine, but he was not tolerating something and had major yeast build-up that we could not keep up with so we stopped all of his supplements with the exception of the Cod Liver Oil, Cal/Mag, probiotics, biotin and enzymes and he is doing magnificently. We fight yeast considerably less now, maybe two or three times a day rather than constantly. His moods are more level, he is happy, focused, speaks well, stims are at a minimum....but it's obvious that the yeast isn't going away, his body just isn't able to fight it on it's own even with two doses of probiotics a day. He has a diet with practically no sugar (with the exception of some very occasional pear juice and slices of pears, watermelon or strawberries as a snack), and the only carbs are sweet potatoes once in a while, since his food allergies include rice, potatoes and wheat. He eats a lot of millet, buckwheat, quinoa, amaranth, and sorghum flours, since it's what provides us with pancakes and muffins (with no sweeteners), it allows him to still eat some "kid" foods. He's a champ though, he gladly eats what we put in front of him, a big stretch from the self-limiting diet he had when we first started all of this!

9) What is your location - city & country (so that we can learn where certain toxins are more prevalent). Allentown, PA - USA