

HAIR ELEMENTS



PATIENT: Hair Test 510
SEX: Male
AGE: 1
LOCATION: Allentown, PA, USA

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	6.4	< 8.0		
Antimony	0.098	< 0.066		
Arsenic	0.076	< 0.080		
Barium	0.08	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.096	< 2.0		
Cadmium	0.023	< 0.070		
Lead	0.24	< 1.0		
Mercury	0.05	< 0.40		
Platinum	0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.032	< 0.060		
Nickel	0.08	< 0.20		
Silver	0.13	< 0.20		
Tin	0.31	< 0.30		
Titanium	1.1	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	110	125- 370					
Magnesium	8	12- 30					
Sodium	11	20- 200					
Potassium	16	12- 200					
Copper	9.5	11- 18					
Zinc	100	100- 190					
Manganese	0.12	0.10- 0.50					
Chromium	0.46	0.43- 0.80					
Vanadium	0.042	0.030- 0.10					
Molybdenum	0.15	0.050- 0.13					
Boron	1.3	0.70- 5.0					
Iodine	1.8	0.25- 1.3					
Lithium	0.008	0.007- 0.020					
Phosphorus	238	150- 220					
Selenium	0.72	0.70- 1.1					
Strontium	0.05	0.16- 1.0					
Sulfur	50700	45500- 53000					
Cobalt	0.006	0.004- 0.020					
Iron	12	7.0- 16					
Germanium	0.038	0.030- 0.040					
Rubidium	0.020	0.016- 0.18					
Zirconium	0.63	0.040- 1.0					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 4/13/2010	Sample Size: 0.198 g					
Date Received: 4/16/2010	Sample Type: Head		Ca/Mg	13.8	4- 30	
Date Completed: 4/19/2010	Hair Color: Blond		Ca/P	0.462	0.8- 8	
Client Reference: 1228853	Treatment:		Na/K	0.688	0.5- 10	
Methodology: ICP-MS	Shampoo: Swanson		Zn/Cu	10.5	4- 20	
			Zn/Cd	> 999	> 800	



PATIENT: Number 510
 SEX: Male
 AGE: 3

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.9	< 8.0	
Antimony (Sb)	0.035	< 0.066	
Arsenic (As)	0.57	< 0.080	
Barium (Ba)	0.06	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.028	< 2.0	
Cadmium (Cd)	0.028	< 0.070	
Lead (Pb)	0.56	< 1.0	
Mercury (Hg)	0.06	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.098	< 0.060	
Nickel (Ni)	0.10	< 0.20	
Silver (Ag)	0.19	< 0.20	
Tin (Sn)	0.25	< 0.30	
Titanium (Ti)	1.1	< 1.0	
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)	54	125- 370	
Magnesium (Mg)	30	12- 30	
Sodium (Na)	19	20- 200	
Potassium (K)	6	12- 200	
Copper (Cu)	18	11- 18	
Zinc (Zn)	240	100- 190	
Manganese (Mn)	0.17	0.10- 0.50	
Chromium (Cr)	0.39	0.43- 0.80	
Vanadium (V)	0.069	0.030- 0.10	
Molybdenum (Mo)	0.22	0.050- 0.13	
Boron (B)	0.82	0.70- 5.0	
Iodine (I)	2.8	0.25- 1.3	
Lithium (Li)	0.007	0.007- 0.020	
Phosphorus (P)	157	150- 220	
Selenium (Se)	2.5	0.70- 1.1	
Strontium (Sr)	0.02	0.16- 1.0	
Sulfur (S)	50800	45500- 53000	
Cobalt (Co)	0.008	0.004- 0.020	
Iron (Fe)	9.0	7.0- 16	
Germanium (Ge)	0.034	0.030- 0.040	
Rubidium (Rb)	0.006	0.016- 0.18	
Zirconium (Zr)	0.42	0.040- 1.0	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 8/2/2011		Ca/Mg	1.8
Date Received: 8/8/2011		Ca/P	0.344
Date Completed: 8/10/2011		Na/K	3.17
Methodology: ICP/MS		Zn/Cu	13.3
Sample Size: 0.202 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Blond	Treatment:		
Shampoo: Castile Soap			
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Health history for Hair Test 510

The first test is from when he was 2 and the second is from age 3 (now).

What are your current symptoms and health history?

Parasitic infection with D. Fragilis, bloating, inconsistent stools, phenol reactions, mood swings

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

None

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

None

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

None

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

Only the Vit K shot at birth

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

Magnesium glycinate-300mg split throughout day, Krill oil, astaxanthin-2mg, minerals (iodine, selenium, boron, manganese, moly)-50ug each, zinc-44mg split throughout day, GSE-120mgx3/day, OoO-50mgx3/day, OLE-100-200mgx3/day, taurine-150mg, Vit D3-2000IU, Vit K2-30mg, Cat's Claw-3 drops liquid Herb Pharm, artichoke extract-10-12 drops Herb Pharm, 1-2 caps ACE, B-Complex-1 cap split three ways throughout day.

What is your age, height and weight? at time of second test 3 years old, 36 inches tall and 31 pounds

What is your location – city & country - **Allentown, PA, USA**