

Toxic & Essential Elements; Hair

TOXIC METALS				
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE	
			68 th	95 th
Aluminum (Al)	4.6	< 7.0		
Antimony (Sb)	< 0.01	< 0.050		
Arsenic (As)	0.086	< 0.060		
Barium (Ba)	3.8	< 2.0		
Beryllium (Be)	< 0.01	< 0.020		
Bismuth (Bi)	0.064	< 2.0		
Cadmium (Cd)	0.018	< 0.050		
Lead (Pb)	0.36	< 0.60		
Mercury (Hg)	3.4	< 0.80		
Platinum (Pt)	< 0.003	< 0.005		
Thallium (Tl)	0.001	< 0.002		
Thorium (Th)	< 0.001	< 0.002		
Uranium (U)	0.45	< 0.060		
Nickel (Ni)	0.12	< 0.30		
Silver (Ag)	0.02	< 0.15		
Tin (Sn)	0.13	< 0.30		
Titanium (Ti)	0.41	< 0.70		
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)	1490	300- 1200					
Magnesium (Mg)	220	35- 120					
Sodium (Na)	850	20- 250					
Potassium (K)	430	8- 75					
Copper (Cu)	17	11- 37					
Zinc (Zn)	210	140- 220					
Manganese (Mn)	0.16	0.08- 0.60					
Chromium (Cr)	0.38	0.40- 0.65					
Vanadium (V)	0.043	0.018- 0.065					
Molybdenum (Mo)	0.036	0.020- 0.050					
Boron (B)	1.6	0.25- 1.5					
Iodine (I)	0.82	0.25- 1.8					
Lithium (Li)	0.022	0.007- 0.020					
Phosphorus (P)	173	150- 220					
Selenium (Se)	0.83	0.55- 1.1					
Strontium (Sr)	15	0.50- 7.6					
Sulfur (S)	45600	44000- 50000					
Cobalt (Co)	0.037	0.005- 0.040					
Iron (Fe)	7.6	7.0- 16					
Germanium (Ge)	0.021	0.030- 0.040					
Rubidium (Rb)	0.33	0.007- 0.096					
Zirconium (Zr)	0.016	0.020- 0.42					

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 02/08/2013	Sample Size: 0.201 g	Ca/Mg	6.77	4- 30
Date Received: 02/14/2013	Sample Type: Head	Ca/P	8.61	1- 12
Date Completed: 02/20/2013	Hair Color: Black	Na/K	1.98	0.5- 10
Methodology: ICP/MS	Treatment: Dye	Zn/Cu	12.4	4- 20
	Shampoo: Burt Bees	Zn/Cd	> 999	> 800

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	11	< 7.0	
Antimony (Sb)	0.013	< 0.050	
Arsenic (As)	0.070	< 0.060	
Barium (Ba)	1.9	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	1.7	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.16	< 0.60	
Mercury (Hg)	0.83	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.28	< 0.060	
Nickel (Ni)	0.10	< 0.30	
Silver (Ag)	0.01	< 0.15	
Tin (Sn)	0.10	< 0.30	
Titanium (Ti)	0.46	< 0.70	
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)	825	300- 1200	
Magnesium (Mg)	67	35- 120	
Sodium (Na)	290	20- 250	
Potassium (K)	220	8- 75	
Copper (Cu)	14	11- 37	
Zinc (Zn)	190	140- 220	
Manganese (Mn)	0.11	0.08- 0.60	
Chromium (Cr)	0.46	0.40- 0.65	
Vanadium (V)	0.055	0.018- 0.065	
Molybdenum (Mo)	0.054	0.020- 0.050	
Boron (B)	2.1	0.25- 1.5	
Iodine (I)	0.49	0.25- 1.8	
Lithium (Li)	0.019	0.007- 0.020	
Phosphorus (P)	173	150- 220	
Selenium (Se)	1.5	0.55- 1.1	
Strontium (Sr)	7.2	0.50- 7.6	
Sulfur (S)	46700	44000- 50000	
Cobalt (Co)	0.040	0.005- 0.040	
Iron (Fe)	9.1	7.0- 16	
Germanium (Ge)	0.024	0.030- 0.040	
Rubidium (Rb)	0.24	0.007- 0.096	
Zirconium (Zr)	0.041	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 09/23/2013	Sample Size: 0.198 g	Ca/Mg	12.3
Date Received: 09/28/2013	Sample Type: Head	Ca/P	4.77
Date Completed: 10/01/2013	Hair Color: Black	Na/K	1.32
Methodology: ICP/MS	Treatment:	Zn/Cu	13.6
	Shampoo: Giovanni	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 732

1) What are your current symptoms and health history?

Severe eczema, acne, fatigue, joint pain, brain fog, unmotivated, insomnia, forgetful, irritated, annoyed, low energy, chemical sensitive, food allergic, tingling sensation

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

10 amalgams, 3 root canal; Had braces, have lower permanent brace retainer attached behind teeth

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

2 root canals were extracted.

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)?

General vaccinations and occasional flu vaccinations up to a few years ago

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

Vitamin C 4000mg
grape seed extract
selenium 200 mg
zinc 50 mg
multi vitamins

7) Other information you feel may be relevant?

Fish, seafood 2x or more weekly for years

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

Laguna Beach, CA, USA (traveled around the world, lived in Asia, NY, and west coast now)

Health history for hair test 732 – for second hair test

Removed all amalgams, root canals 6 weeks ago, started 1st round DMSA on 9/29/13 , 3 days on 5.208 mg.

Feel more like back to myself when on the round, more energy, mental is more clear, able to focus, more strength.

Side effect: a bit yeast prob, disappear as soon as I take protiotic; dry skin, breakout. Feel a bit "crushed" after round