

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	7.4	< 8.0		
Antimony	0.076	< 0.066		
Arsenic	0.081	< 0.080		
Barium	0.17	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.075	< 2.0		
Cadmium	0.052	< 0.070		
Lead	0.83	< 1.0		
Mercury	0.04	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.003	< 0.060		
Nickel	0.10	< 0.20		
Silver	0.12	< 0.20		
Tin	0.50	< 0.30		
Titanium	0.50	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	198	125- 370					
Magnesium	64	12- 30					
Sodium	79	20- 200					
Potassium	210	12- 200					
Copper	13	11- 18					
Zinc	96	100- 190					
Manganese	0.07	0.10- 0.50					
Chromium	0.46	0.43- 0.80					
Vanadium	0.030	0.030- 0.10					
Molybdenum	0.060	0.050- 0.13					
Boron	0.47	0.70- 5.0					
Iodine	0.30	0.25- 1.3					
Lithium	0.004	0.007- 0.020					
Phosphorus	183	150- 220					
Selenium	0.83	0.70- 1.1					
Strontium	0.30	0.16- 1.0					
Sulfur	49700	45500- 53000					
Cobalt	0.006	0.004- 0.020					
Iron	8.6	7.0- 16					
Germanium	0.034	0.030- 0.040					
Rubidium	0.20	0.016- 0.18					
Zirconium	1.4	0.040- 1.0					

SPECIMEN DATA

COMMENTS:
Date Collected: 1/20/2010 Sample Size: 0.198 g
Date Received: 1/23/2010 Sample Type: Head
Date Completed: 1/28/2010 Hair Color: Blond
Client Reference: Treatment:
Methodology: ICP-MS Shampoo: Baby

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	3.09	4- 30
Ca/P	1.08	0.8- 8
Na/K	0.376	0.5- 10
Zn/Cu	7.38	4- 20
Zn/Cd	> 999	> 800

V010.08



PATIENT: Number 741 follow-up test
 SEX: Male
 AGE: 6

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	4.2	< 8.0	
Antimony (Sb)	0.071	< 0.066	
Arsenic (As)	0.046	< 0.080	
Barium (Ba)	0.26	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.84	< 2.0	
Cadmium (Cd)	0.022	< 0.070	
Lead (Pb)	0.21	< 1.0	
Mercury (Hg)	< 0.03	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.002	< 0.060	
Nickel (Ni)	0.13	< 0.20	
Silver (Ag)	0.08	< 0.14	
Tin (Sn)	0.18	< 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)	144	160- 500			
Magnesium (Mg)	87	12- 50			
Sodium (Na)	73	20- 200			
Potassium (K)	31	12- 140			
Copper (Cu)	14	11- 32			
Zinc (Zn)	100	110- 190			
Manganese (Mn)	0.08	0.08- 0.50			
Chromium (Cr)	0.49	0.40- 0.70			
Vanadium (V)	0.030	0.025- 0.10			
Molybdenum (Mo)	0.074	0.040- 0.090			
Boron (B)	3.8	0.50- 3.5			
Iodine (I)	0.27	0.25- 1.3			
Lithium (Li)	0.14	0.007- 0.020			
Phosphorus (P)	143	150- 220			
Selenium (Se)	0.90	0.70- 1.1			
Strontium (Sr)	0.10	0.21- 2.1			
Sulfur (S)	49300	44000- 51000			
Cobalt (Co)	0.008	0.004- 0.020			
Iron (Fe)	6.3	7.0- 16			
Germanium (Ge)	0.023	0.030- 0.040			
Rubidium (Rb)	0.032	0.008- 0.080			
Zirconium (Zr)	0.47	0.060- 0.70			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 02/13/2013	Sample Size: 0.119 g	Ca/Mg	1.66	4- 30
Date Received: 02/25/2013	Sample Type: Head	Ca/P	1.01	0.8- 8
Date Completed: 03/05/2013	Hair Color:	Na/K	2.35	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	7.14	4- 20
	Shampoo:	Zn/Cd	> 999	> 800

Health history for hair test 741

1. What are your current symptoms and health history? autism
2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)
NON
3. What dental work do you currently have in place? What part of the dental clean-up have you [completed](#) ? NON
4. What dentistry did your mother have at any time before or during pregnancy? 6-7 amalgams removed during pregnancy, her test is #407
5. What vaccinations have you had and when (including flu and especially travel shots)? all cav til 2.5 yrs old, including last 1 h1n1
6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? minerals vitamans
7. What is your age, height and weight? 6 46" 50lbs
8. Other information you feel may be relevant? sister non
9. What is your location – city & country (so that we can learn where certain toxins are more prevalent).