

AGE: 3

Toxic & Essential Elements; Hair

TOXIC METALS					
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th	
Aluminum	(AI)	7.3	< 8.0		
Antimony	(Sb)	0.23	< 0.066		
Arsenic	(As)	0.12	< 0.080		
Barium	(Ba)	0.35	< 0.50		
Beryllium	(Be)	< 0.01	< 0.020		
Bismuth	(Bi)	0.081	< 2.0	•	
Cadmium	(Cd)	< 0.009	< 0.070		
Lead	(Pb)	0.14	< 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)	0.024	< 0.060		
Nickel	(Ni)	0.13	< 0.20		
Silver	(Ag)	0.09	< 0.20		
Tin	(Sn)	0.25	< 0.30		
Titanium	(Ti)	0.32	< 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)	215	125- 370	•
Magnesium	(Mg)	23	12- 30	
Sodium	(Na)	28	20- 200	
Potassium	(K)	39	12- 200	
Copper	(Cu)	11	11- 18	
Zinc	(Zn)	95	100- 190	
Manganese	(Mn)	0.21	0.10- 0.50	•
Chromium	(Cr)	0.64	0.43- 0.80	
Vanadium	(V)	0.12	0.030- 0.10	
Molybdenum	(Mo)	0.11	0.050- 0.13	
Boron	(B)	9.2	0.70- 5.0	
lodine	(I)	1.9	0.25- 1.3	
Lithium	(Li)	0.005	0.007- 0.020	
Phosphorus	(P)	154	150- 220	
Selenium	(Se)	0.81	0.70- 1.1	
Strontium	(Sr)	0.39	0.16- 1.0	
Sulfur	(S)	50600	45500- 53000	
Cobalt	(Co)	0.009	0.004- 0.020	
Iron	(Fe)	11	7.0- 16	
Germanium	(Ge)	0.031	0.030- 0.040	
Rubidium	(Rb)	0.093	0.016- 0.18	
Zirconium	(Zr)	0.79	0.040- 1.0	

COMMENTS:

Date Collected: 12/17/2013
Date Received: 12/23/2013
Date Completed: 12/30/2013
Methodology: ICP/MS

Sample Size: 0.133 g
Sample Type: Head
Hair Color: Brown
Treatment:

SPECIMEN DATA

Shampoo: Baby Ganics

KATIO3					
ELEMENTS	RATIOS	RANGE			
Ca/Mg	9.35	4- 30			
Ca/P	1.4	0.8- 8			
Na/K	0.718	0.5- 10			
Zn/Cu	8.64	4- 20			
Zn/Cd	> 999	> 800			

Health history for hair test 971

Hair Tests Results are attached for my 3 year old son. They were obtained in December 2013 from DDI.

- 1. What are your current symptoms and health history? He currently has an ASD diagnosis. He has anxiety, covers ears, sleep disturbances but getting much better, constipation but getting much better, vocal and verbal stemming, fixated on letters and numbers, lack of imaginary play.
- 2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) N/a for him, but I have had wisdom teeth removed and have amalgam fillings
- 3. What dental work do you currently have in place? What part of the dental clean-up have you completed? I have done no dental clean up
- 4. What dentistry did your mother have at any time before or during pregnancy? unknown
- 5. What vaccinations have you had and when (including flu and especially travel shots)? He had all required vaccines until 2 years of age.
- 6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? At the time of the hair test we had not begun supplementation
- 7. What is your age, height and weight? He is 3 years old and about 30+ lbs
- 8. Other information you feel may be relevant? My husband is active duty Air Force and my son's autistic symptoms became to present themselves after a serious illness (croup + maybe other things?), vaccines, etc while we were stationed in Turkey. Never saw autistic symptoms prior
- 9. What is your location city & country (so that we can learn where certain toxins are more prevalent) We were living in Adana, Turkey on Incirlik Air Base from 11 months 27 months. We now live in Vacaville, CA (this is also where we lived prior to moving to Turkey).