



PATIENT: Hair Test 554
 SEX: Female
 AGE: 2

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	19	< 8.0	
Antimony (Sb)	0.078	< 0.066	
Arsenic (As)	0.083	< 0.080	
Barium (Ba)	0.47	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.024	< 2.0	
Cadmium (Cd)	0.025	< 0.070	
Lead (Pb)	2.0	< 1.0	
Mercury (Hg)	0.64	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.030	< 0.060	
Nickel (Ni)	0.24	< 0.30	
Silver (Ag)	0.27	< 0.20	
Tin (Sn)	0.41	< 0.30	
Titanium (Ti)	0.84	< 0.90	
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)	265	140- 500			
Magnesium (Mg)	14	15- 45			
Sodium (Na)	130	18- 180			
Potassium (K)	420	10- 150			
Copper (Cu)	11	11- 24			
Zinc (Zn)	31	100- 190			
Manganese (Mn)	0.11	0.10- 0.50			
Chromium (Cr)	0.40	0.43- 0.70			
Vanadium (V)	0.035	0.030- 0.10			
Molybdenum (Mo)	0.13	0.050- 0.13			
Boron (B)	0.65	0.40- 3.5			
Iodine (I)	1.0	0.25- 1.3			
Lithium (Li)	0.005	0.007- 0.020			
Phosphorus (P)	156	150- 220			
Selenium (Se)	1.4	0.70- 1.1			
Strontium (Sr)	0.60	0.19- 2.0			
Sulfur (S)	47700	45500- 53000			
Cobalt (Co)	0.010	0.005- 0.030			
Iron (Fe)	11	7.0- 16			
Germanium (Ge)	0.027	0.030- 0.040			
Rubidium (Rb)	0.53	0.012- 0.16			
Zirconium (Zr)	1.2	0.030- 1.0			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 10/10/2011		Ca/Mg	18.9
Date Received: 10/26/2011		Ca/P	1.7
Date Completed: 10/27/2011		Na/K	0.31
Methodology: ICP/MS		Zn/Cu	2.82
Sample Size: 0.2 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Suave Kids			
		RANGE	
		4- 30	
		1- 12	
		0.5- 10	
		4- 20	
		> 800	

Health history for hair test 554

1. Normal. Well above average verbal skills.
2. No dental work at all.
3. None needed.
4. No dental work at time of pregnancy.
5. Polio vaccine. No other vaccines.
6. Childrens multi-vitamin only.
7. 2, 30" or so, 25lbs.
- 8.
9. Kin Town, Okinawa, Japan