



PATIENT: Number 774
 SEX: Female
 AGE: 3

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	2.8	< 8.0	
Antimony (Sb)	0.017	< 0.066	
Arsenic (As)	0.052	< 0.080	
Barium (Ba)	0.05	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.037	< 2.0	
Cadmium (Cd)	0.009	< 0.070	
Lead (Pb)	0.23	< 1.0	
Mercury (Hg)	0.07	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.053	< 0.060	
Nickel (Ni)	0.08	< 0.30	
Silver (Ag)	0.05	< 0.20	
Tin (Sn)	0.19	< 0.30	
Titanium (Ti)	0.24	< 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)	64	140- 500	
Magnesium (Mg)	210	15- 45	
Sodium (Na)	140	18- 180	
Potassium (K)	110	10- 150	
Copper (Cu)	10	11- 24	
Zinc (Zn)	110	100- 190	
Manganese (Mn)	0.09	0.10- 0.50	
Chromium (Cr)	0.43	0.43- 0.70	
Vanadium (V)	0.045	0.030- 0.10	
Molybdenum (Mo)	0.088	0.050- 0.13	
Boron (B)	0.47	0.40- 3.5	
Iodine (I)	2.2	0.25- 1.3	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	112	150- 220	
Selenium (Se)	0.75	0.70- 1.1	
Strontium (Sr)	0.23	0.19- 2.0	
Sulfur (S)	48600	45500- 53000	
Cobalt (Co)	0.005	0.005- 0.030	
Iron (Fe)	6.1	7.0- 16	
Germanium (Ge)	0.029	0.030- 0.040	
Rubidium (Rb)	0.10	0.012- 0.16	
Zirconium (Zr)	0.19	0.030- 1.0	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 04/14/2013		Ca/Mg	0.305
Date Received: 04/17/2013		Ca/P	0.571
Date Completed: 04/19/2013		Na/K	1.27
Methodology: ICP/MS		Zn/Cu	11
Sample Size: 0.199 g		Zn/Cd	> 999
Sample Type: Head			
Hair Color: Blond			
Treatment:			
Shampoo: Burts Bees			
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 774

1) Slight intolerance to gluten and dairy, very picky eater, wakeful/not into naps, attention issues, normal toddler defiance, chronic constipation from age 2y4mos to 2y11mos, at 2 yrs not responding to name for a few weeks/seemed in her own world so we had a homeopathic therapist prescribe a remedy for vaccine detox. She is neurotypical and developing normally.

2) none

3) none

4) Mother had 8 amalgams removed 10 yrs prior to pregnancy but did not chelate. Has composite crowns and fillings.

5) Received all recommended vaccines through 15 months and two flu shots in utero. We are not vaccinating from now own just FYI.

6) Magnesium 200 mg/day

7) 3, 27 lbs, 35"

8) nothing to note

9) Madison, WI