

*Toxic & Essential Elements; Hair*

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	8.2	< 8.0	
Antimony (Sb)	0.17	< 0.066	
Arsenic (As)	0.13	< 0.080	
Barium (Ba)	0.24	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.024	< 2.0	
Cadmium (Cd)	0.038	< 0.070	
Lead (Pb)	0.55	< 1.0	
Mercury (Hg)	1.7	< 0.40	
Platinum (Pt)	0.005	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.091	< 0.060	
Nickel (Ni)	0.15	< 0.30	
Silver (Ag)	0.08	< 0.20	
Tin (Sn)	0.63	< 0.30	
Titanium (Ti)	0.26	< 0.90	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
Calcium (Ca)	137	140- 500	
Magnesium (Mg)	17	15- 45	
Sodium (Na)	30	18- 180	
Potassium (K)	24	10- 150	
Copper (Cu)	11	11- 24	
Zinc (Zn)	35	100- 190	
Manganese (Mn)	0.17	0.10- 0.50	
Chromium (Cr)	0.57	0.43- 0.70	
Vanadium (V)	0.062	0.030- 0.10	
Molybdenum (Mo)	0.11	0.050- 0.13	
Boron (B)	6.9	0.40- 3.5	
Iodine (I)	1.3	0.25- 1.3	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	115	150- 220	
Selenium (Se)	0.81	0.70- 1.1	
Strontium (Sr)	0.25	0.19- 2.0	
Sulfur (S)	47000	45500- 53000	
Cobalt (Co)	0.020	0.005- 0.030	
Iron (Fe)	9.2	7.0- 16	
Germanium (Ge)	0.029	0.030- 0.040	
Rubidium (Rb)	0.022	0.012- 0.16	
Zirconium (Zr)	0.87	0.030- 1.0	

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		ELEMENTS	RATIOS
Date Collected: 11/26/2012	Sample Size: 0.202 g	Ca/Mg	8.06
Date Received: 11/29/2012	Sample Type: Head	Ca/P	1.19
Date Completed: 12/04/2012	Hair Color:	Na/K	1.25
Methodology: ICP/MS	Treatment:	Zn/Cu	3.18
	Shampoo:	Zn/Cd	921
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

## **Health history for hair test 793**

- What are your current symptoms and health history? **Child age 2, diagnosed with autism. Delay in gross and fine motor skills and language. Poor feeding and weight gain from 2-4 months while breastfed, supplemented with formula from 4 months onward. Child self-weaned from breastmilk at 8 months. Child is second of three children. First child age 5 is NT and third child age 8 months has normal development.**
- Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) **None.**
- What dental work do you currently have in place? What part of the dental clean-up have you completed? **None.**
- What dentistry did your mother have at any time before or during pregnancy? **Amalgams present, had dental cleanings while pregnant**
- What vaccinations have you had and when (including flu and especially travel shots)? **Fully vaccinated and had one flu shot at age 12 months. In addition, mother had vaccination shortly after child's birth for pertussis (while breastfeeding).**
- Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? **ProThera VitaPrime (1 tablet daily), ProThera MitoThera (4 caps daily), 1 cap of Ther-Biotic Complete and Saccharomyces Boulardii daily, Barleen's Omega Swirl Fish Oil Supplement Mango-Peach flavor - 1 tsp daily**
- What is your age, height and weight? **2 years of age, 30 pounds, approximately 35" tall**
- Other information you feel may be relevant? **GF/CF diet**
- What is your location – city & country (so that we can learn where certain toxins are more prevalent). **Saskatoon, Saskatchewan, Canada**