

# HAIR ELEMENTS



PATIENT: Number 224  
 SEX: Male  
 AGE: 3  
 LOCATION: Montreal, Canada

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	4.1	< 8.0		
Antimony	0.054	< 0.066		
Arsenic	0.086	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.073	< 2.0		
Cadmium	0.056	< 0.15		
Lead	0.93	< 1.0		
Mercury	0.24	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.019	< 0.060		
Nickel	0.10	< 0.40		
Silver	0.27	< 0.20		
Tin	0.24	< 0.30		
Titanium	0.40	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	129	125- 370					
Magnesium	13	12- 30					
Sodium	8	12- 90					
Potassium	19	12- 40					
Copper	11	8.0- 16					
Zinc	100	100- 190					
Manganese	0.15	0.20- 0.55					
Chromium	0.55	0.26- 0.50					
Vanadium	0.062	0.030- 0.10					
Molybdenum	0.073	0.050- 0.13					
Boron	7.8	0.60- 4.0					
Iodine	1.0	0.25- 1.3					
Lithium	0.007	0.007- 0.023					
Phosphorus	180	160- 250					
Selenium	1.1	0.95- 1.7					
Strontium	0.18	0.16- 1.0					
Sulfur	48300	45500- 53000					
Barium	0.10	0.16- 0.80					
Cobalt	0.006	0.013- 0.035					
Iron	8.9	8.0- 19					
Germanium	0.037	0.045- 0.065					
Rubidium	0.014	0.016- 0.18					
Zirconium	0.10	0.040- 1.0					

SPECIMEN DATA				RATIOS		
<b>COMMENTS:</b>				<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected:	10/28/2008	Sample Size:	0.199 g	Ca/Mg	9.92	4- 30
Date Received:	11/3/2008	Sample Type:	Head	Ca/P	0.717	0.8- 8
Date Completed:	11/4/2008	Hair Color:	Brown	Na/K	0.421	0.5- 10
		Treatment:		Zn/Cu	9.09	4- 20
Methodology:	ICP-MS	Shampoo:	Melaleuca	Zn/Cd	> 999	> 800

V06.99

## Health history for hair test 224

This is for my son. His test was done 1 month before he turned 4 years old.

1) **What are your current symptoms and health history?** He is stubborn, used to bang his head a lot, it got much better though. Can be very Jealous (oldest of 3 – I don't know if this is a big worry.) Very picky eater. Is constipated on and off, since 18 months. He is very short, skinny, and very low weight. (Both parents are 5'2", and weigh under 110 lbs.) Slightly aggressive, has nightmares. Attached to mother (he's the oldest child.) For example: comes to my bed in middle of his sleep.

2) **Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)** Nothing yet.

3) **What dental work do you currently have in place? What part of the dental cleanup have you completed?** Nothing yet

4) **What dentistry did your mother have at any time before or during pregnancy?** Cleaning done during pregnancy. Before: Mother had 2 root canals, several crowns, silver fillings still in mouth, composite fillings, braces.

5) **What vaccinations have you had and when (including flu and especially travel shots)?** DTAP/Polio/HIB, HEP A, HEP B, Prevnar, Meningitis, MMR (No flu or chicken pox)

6) **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.** Multivitamin

7) **Other information you feel may be relevant?**

He's generally a good kid, but can get nervous easily, is the oldest child, so I know different "rules" apply than when comparing with other children. His father is also a very picky eater, and his mother eats a little more than everyone else, but doesn't eat everything.

8) **What is your location - city & country (so that we can learn where certain toxins are more prevalent).** Montreal, Canada