

# HAIR ELEMENTS



**PATIENT: Number 263**  
**SEX: Male**  
**AGE: 1**

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	2.5	< 8.0		
Antimony	0.12	< 0.066		
Arsenic	0.16	< 0.080		
Barium	0.44	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.027	< 2.0		
Cadmium	0.11	< 0.070		
Lead	1.1	< 1.0		
Mercury	0.18	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.010	< 0.060		
Nickel	0.10	< 0.20		
Silver	0.83	< 0.20		
Tin	0.87	< 0.30		
Titanium	0.73	< 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	178	125- 370					
Magnesium	16	12- 30					
Sodium	280	20- 200					
Potassium	380	12- 200					
Copper	8.6	11- 18					
Zinc	150	100- 190					
Manganese	0.20	0.10- 0.50					
Chromium	0.37	0.43- 0.80					
Vanadium	0.032	0.030- 0.10					
Molybdenum	0.12	0.050- 0.13					
Boron	7.8	0.70- 5.0					
Iodine	1.5	0.25- 1.3					
Lithium	0.069	0.007- 0.020					
Phosphorus	177	150- 220					
Selenium	1.0	0.70- 1.1					
Strontium	0.43	0.16- 1.0					
Sulfur	40700	45500- 53000					
Cobalt	0.010	0.004- 0.020					
Iron	9.3	7.0- 16					
Germanium	0.035	0.030- 0.040					
Rubidium	0.58	0.016- 0.18					
Zirconium	0.083	0.040- 1.0					

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 2/10/2009	Sample Size: 0.199 g			
Date Received: 2/17/2009	Sample Type: Head	Ca/Mg	11.1	4- 30
Date Completed: 2/18/2009	Hair Color:	Ca/P	1.01	0.8- 8
Client Reference:	Treatment:	Na/K	0.737	0.5- 10
Methodology: ICP-MS	Shampoo:	Zn/Cu	17.4	4- 20
		Zn/Cd	> 999	> 800

V010.08

**Health history for hair test 263**  
**(brother of hair test 262)**

Enzo -18 months old

Enzo hasn't had any vaccines, mother (me) is most likely mercury toxic. Mom had her amalgams removed 3yrs prior to Enzo being born. There was a very early stage miscarriage before he was conceived. Enzo has sensory issues and babbles but doesn't have words. He sometimes has a "Ma and Da, and Dum" word sounds. He is just begininng to stick out his tongue and slowly is beginning to portion his food- he used to cram all the food in from his plate and chew it like a chipmunk. He started to walk at 16months.

Enzo has identified food sensitivities.