

HAIR ELEMENTS



PATIENT: Number 232

SEX: Male

AGE: 4

LOCATION: Grand Rapids, Michigan, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	5.1	< 8.0		
Antimony	0.077	< 0.066		
Arsenic	0.083	< 0.080		
Barium	0.22	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.090	< 2.0		
Cadmium	0.023	< 0.070		
Lead	0.25	< 1.0		
Mercury	0.05	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.004	< 0.060		
Nickel	0.06	< 0.20		
Silver	0.04	< 0.20		
Tin	0.34	< 0.30		
Titanium	0.29	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	178	125– 370					
Magnesium	13	12– 30					
Sodium	44	20– 200					
Potassium	26	12– 200					
Copper	8.8	11– 18					
Zinc	180	100– 190					
Manganese	0.21	0.10– 0.50					
Chromium	0.38	0.43– 0.80					
Vanadium	0.035	0.030– 0.10					
Molybdenum	0.031	0.050– 0.13					
Boron	2.2	0.70– 5.0					
Iodine	0.33	0.25– 1.3					
Lithium	0.004	0.007– 0.020					
Phosphorus	137	150– 220					
Selenium	0.74	0.70– 1.1					
Strontium	0.12	0.16– 1.0					
Sulfur	50000	45500– 53000					
Cobalt	0.004	0.004– 0.020					
Iron	11	7.0– 16					
Germanium	0.035	0.030– 0.040					
Rubidium	0.026	0.016– 0.18					
Zirconium	0.97	0.040– 1.0					

SPECIMEN DATA

COMMENTS:

Date Collected: 11/22/2008

Date Received: 12/5/2008

Date Completed: 12/10/2008

Client Reference:

Methodology: ICP-MS

Sample Size: 0.198 g

Sample Type: Head

Hair Color: Brown

Treatment:

Shampoo: Suave Kids

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	13.7	4– 30
Ca/P	1.3	0.8– 8
Na/K	1.69	0.5– 10
Zn/Cu	20.5	4– 20
Zn/Cd	> 999	> 800

Health history for hair test 232

Age 4

1 -Current symptoms/health history – Difficulty sleeping all night as an infant, eczema, many ear infections, learned to talk late (doctor said he heard things as though fingers were stuck in his ears), had to have speech therapy before age 3, diagnosed with antibiotic resistance in 2007, has had tubes put in ears 3 times, adenoids removed, often wants a Q-tip for his ear because it hurts, mild asthma diagnosed at age 3, likes most foods, willing to try new foods, impulsivity in actions as a toddler and preschooler, difficulty obeying, articulation problems – the word ‘car’ sounds like ‘cow’, dry skin, bumps on skin.

2- Dental history- no amalgam fillings.

3 – No dental work in place, no dental cleanup needed.

4 – Mother had routine cleanings during pregnancy, no amalgams placed.

5- Vaccinations – usual prescribed vaccinations. Any with thimerosal after 2004?

I don’t know.

6- Supplements/medications for 6 months prior to hair test – Daily multi-vitamin/mineral supplement (L’il Critters Gummy Vites).

7- He is a likeable, affectionate child, but doesn’t like to go to preschool, has trouble transitioning from preschool classroom to daycare classroom. He doesn’t like to go to his Sunday School class. He would rather stay home.

8- Grand Rapids, Michigan, USA.