

HAIR ELEMENTS



PATIENT: Number 472
SEX: Female
AGE: 4
LOCATION: Los Angeles, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	9.3	< 8.0		
Antimony	0.043	< 0.066		
Arsenic	0.098	< 0.080		
Barium	0.85	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.071	< 2.0		
Cadmium	0.015	< 0.070		
Lead	0.49	< 1.0		
Mercury	2.3	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.30	< 0.060		
Nickel	0.12	< 0.30		
Silver	0.02	< 0.20		
Tin	0.15	< 0.30		
Titanium	0.90	< 0.90		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	1080	140- 500					
Magnesium	120	15- 45					
Sodium	100	18- 180					
Potassium	79	10- 150					
Copper	19	11- 24					
Zinc	210	100- 190					
Manganese	0.16	0.10- 0.50					
Chromium	0.40	0.43- 0.70					
Vanadium	0.080	0.030- 0.10					
Molybdenum	0.091	0.050- 0.13					
Boron	11	0.40- 3.5					
Iodine	1.3	0.25- 1.3					
Lithium	0.009	0.007- 0.020					
Phosphorus	253	150- 220					
Selenium	1.3	0.70- 1.1					
Strontium	3.7	0.19- 2.0					
Sulfur	47400	45500- 53000					
Cobalt	0.006	0.005- 0.030					
Iron	13	7.0- 16					
Germanium	0.030	0.030- 0.040					
Rubidium	0.083	0.012- 0.16					
Zirconium	0.15	0.030- 1.0					

SPECIMEN DATA

COMMENTS:
 Date Collected: 4/10/2011 Sample Size: 0.196 g
 Date Received: 4/15/2011 Sample Type: Head
 Date Completed: 4/18/2011 Hair Color: Black
 Client Reference: 1274860 Treatment:
 Methodology: ICP-MS Shampoo: Eo

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	9	4- 30
Ca/P	4.27	1- 12
Na/K	1.27	0.5- 10
Zn/Cu	11.1	4- 20
Zn/Cd	> 999	> 800

Health history for hair test 472

- 1) Eczema, nasal congestion, quick temper
- 2) Had 10 cavities, Anesthesia for the procedure.
- 3) Filled cavities. Compound contains fluoride.
- 4) Mother had amalgam
- 5) Polio (3), DTP (4), Hib (3), HepB (3), PNUcon (3), VZV (1)
- 6) Probiotics, fish oil,
- 7) Sibling has autism
- 8) Los Angeles, USA