

HAIR ELEMENTS



PATIENT: Number 363
SEX: Male
AGE: 13
LOCATION: Beijing, China

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	6.2	< 8.0		
Antimony	0.041	< 0.066		
Arsenic	0.045	< 0.080		
Barium	3.9	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.011	< 2.0		
Cadmium	0.051	< 0.060		
Lead	1.3	< 1.0		
Mercury	0.08	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.22	< 0.060		
Nickel	0.13	< 0.20		
Silver	0.15	< 0.10		
Tin	0.21	< 0.30		
Titanium	0.31	< 0.60		
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	1360	200 - 700					
Magnesium	130	18 - 70					
Sodium	59	20 - 200					
Potassium	47	9 - 80					
Copper	390	11 - 32					
Zinc	230	150 - 230					
Manganese	0.21	0.08 - 0.50					
Chromium	0.38	0.40 - 0.70					
Vanadium	0.067	0.020 - 0.075					
Molybdenum	0.043	0.030 - 0.060					
Boron	0.29	0.34 - 3.0					
Iodine	0.20	0.25 - 1.3					
Lithium	0.007	0.007 - 0.020					
Phosphorus	166	150 - 220					
Selenium	0.71	0.70 - 1.2					
Strontium	3.9	0.30 - 3.2					
Sulfur	51300	44000 - 50000					
Cobalt	0.013	0.004 - 0.020					
Iron	14	7.0 - 16					
Germanium	0.036	0.030 - 0.040					
Rubidium	0.075	0.009 - 0.090					
Zirconium	0.071	0.047 - 0.70					

SPECIMEN DATA

COMMENTS:

Date Collected: 4/27/2010
Date Received: 5/7/2010
Date Completed: 5/14/2010
Client Reference:
Methodology: ICP-MS

Sample Size: 0.196 g
Sample Type: Head
Hair Color: Brown
Treatment:
Shampoo: Pantene

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	10.5	4 - 30
Ca/P	8.19	0.8 - 8
Na/K	1.26	0.5 - 10
Zn/Cu	0.59	4 - 20
Zn/Cd	> 999	> 800

Health history for hair test 363

13yr male. Executive dysfunction

No dental work

Live in Beijing, PRC

My mum feels like crap!

Currently taking moly/zinc/fish oil

Had all the vaccinations