

HAIR ELEMENTS



PATIENT: Number 292
SEX: Female
AGE: 40
LOCATION: Champaign, IL USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	2.8	< 7.0		
Antimony	0.015	< 0.050		
Arsenic	0.049	< 0.060		
Barium	2.6	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.71	< 2.0		
Cadmium	0.012	< 0.050		
Lead	0.42	< 0.60		
Mercury	0.08	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.005	< 0.060		
Nickel	0.66	< 0.30		
Silver	0.15	< 0.15		
Tin	0.06	< 0.30		
Titanium	1.0	< 0.70		
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	573	300- 1200					
Magnesium	93	35- 120					
Sodium	66	20- 250					
Potassium	45	8- 75					
Copper	11	11- 37					
Zinc	260	140- 220					
Manganese	0.34	0.08- 0.60					
Chromium	0.70	0.40- 0.65					
Vanadium	0.035	0.018- 0.065					
Molybdenum	0.067	0.020- 0.050					
Boron	4.6	0.25- 1.5					
Iodine	0.50	0.25- 1.8					
Lithium	0.009	0.007- 0.020					
Phosphorus	174	150- 220					
Selenium	1.7	0.55- 1.1					
Strontium	3.3	0.50- 7.6					
Sulfur	49800	44000- 50000					
Cobalt	0.035	0.005- 0.040					
Iron	7.9	7.0- 16					
Germanium	0.031	0.030- 0.040					
Rubidium	0.069	0.007- 0.096					
Zirconium	0.36	0.020- 0.42					

SPECIMEN DATA

COMMENTS: 1191341

Date Collected: 6/5/2009

Date Received: 6/8/2009

Date Completed: 6/11/2009

Client Reference:

Methodology: ICP-MS

Sample Size: 0.196 g

Sample Type: Head

Hair Color: Black

Treatment:

Shampoo: Olive Soap

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	6.16	4- 30
Ca/P	3.29	1- 12
Na/K	1.47	0.5- 10
Zn/Cu	23.6	4- 20
Zn/Cd	> 999	> 800

Health history for hair test 292

- 1) I have chemical sensitivity, menstrual irregularities, and a chronic bacterial infection. Age = 40. Active, no brain fog unless exposed to petrochemical.
- 2) Wisdom teeth removed. Eight or so amalgams since childhood. Had bottom amalgams removed last year by conventional dentist. This year had TDR (with cavitation surgery) April 2009.
- 3)see above
- 4) don't know
- 5) Standard vaccinations as a kid. A couple of flu and tetanus shots 10 years ago.
- 6) Usana supplements
- 7) I worked as a field environmental engineer.
- 8) Champaign, IL USA