

# HAIR ELEMENTS



**ATIENT: Number 289**  
**SEX: Female**  
**AGE: 49**  
**LOCATION: Northern Illinois**

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	1.3	< 7.0		
Antimony	0.014	< 0.050		
Arsenic	0.055	< 0.060		
Barium	2.0	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.051	< 2.0		
Cadmium	0.081	< 0.050		
Lead	0.08	< 0.60		
Mercury	0.32	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	< 0.001	< 0.060		
Nickel	0.10	< 0.30		
Silver	0.01	< 0.15		
Tin	0.07	< 0.30		
Titanium	0.39	< 0.70		
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	1350	300- 1200					
Magnesium	170	35- 120					
Sodium	120	20- 250					
Potassium	35	8- 75					
Copper	61	11- 37					
Zinc	230	140- 220					
Manganese	0.36	0.08- 0.60					
Chromium	0.58	0.40- 0.65					
Vanadium	0.021	0.018- 0.065					
Molybdenum	0.016	0.020- 0.050					
Boron	0.27	0.25- 1.5					
Iodine	0.64	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	170	150- 220					
Selenium	1.2	0.55- 1.1					
Strontium	7.3	0.50- 7.6					
Sulfur	48800	44000- 50000					
Cobalt	0.012	0.005- 0.040					
Iron	9.5	7.0- 16					
Germanium	0.046	0.030- 0.040					
Rubidium	0.036	0.007- 0.096					
Zirconium	0.040	0.020- 0.42					

SPECIMEN DATA				RATIOS		
<b>COMMENTS:</b>				<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected: 5/10/2009	Sample Size: 0.202 g			Ca/Mg	7.94	4- 30
Date Received: 5/12/2009	Sample Type: Head			Ca/P	7.94	1- 12
Date Completed: 5/13/2009	Hair Color: Gray			Na/K	3.43	0.5- 10
Client Reference:	Treatment:			Zn/Cu	3.77	4- 20
Methodology: ICP-MS	Shampoo: Earth Science			Zn/Cd	> 999	> 800

### **Health history for hair test 289**

I have SEVERE disabling chemical sensitivity and am positive for Lyme Disease. I have had high copper on my last several hair tests and have many neurological problems: dizziness, vertigo, tremors, blurred vision, myoclonic jerking, loss of balance, brain fog. I am starting to react to many different foods now, also.

I currently have 8 merc amalgams in place. I had one replaced in Jan when it broke but did not chelate because of the others. Few of my amalgams have been replaced and I started getting them as a child of 4 or 5 years old I think. I have never had a root canal or wisdom teeth extracted. I have braces from age 13-14.

I don't know the status of my mother's dental situation but assume she had amalgams, too.

I had all the childhood vaccinations of my generation plus travel shots when I went to China in 1996.

I am now 49 and female living in Northern Illinois.