



PATIENT: Number 551  
 SEX: Female  
 AGE: 40

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	11	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.055	< 0.060	
Barium (Ba)	1.3	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.031	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.51	< 0.60	
Mercury (Hg)	1.3	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.049	< 0.060	
Nickel (Ni)	0.17	< 0.30	
Silver (Ag)	0.02	< 0.15	
Tin (Sn)	0.02	< 0.30	
Titanium (Ti)	0.30	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	1150	300- 1200			
Magnesium (Mg)	61	35- 120			
Sodium (Na)	53	20- 250			
Potassium (K)	6	8- 75			
Copper (Cu)	13	11- 37			
Zinc (Zn)	180	140- 220			
Manganese (Mn)	0.09	0.08- 0.60			
Chromium (Cr)	0.34	0.40- 0.65			
Vanadium (V)	0.012	0.018- 0.065			
Molybdenum (Mo)	0.025	0.020- 0.050			
Boron (B)	0.51	0.25- 1.5			
Iodine (I)	0.35	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	185	150- 220			
Selenium (Se)	0.82	0.55- 1.1			
Strontium (Sr)	4.4	0.50- 7.6			
Sulfur (S)	45600	44000- 50000			
Cobalt (Co)	0.004	0.005- 0.040			
Iron (Fe)	6.8	7.0- 16			
Germanium (Ge)	0.023	0.030- 0.040			
Rubidium (Rb)	0.011	0.007- 0.096			
Zirconium (Zr)	0.16	0.020- 0.42			

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 10/10/2011	Sample Size: 0.197 g	Ca/Mg	18.9	4- 30
Date Received: 10/26/2011	Sample Type: Head	Ca/P	6.22	1- 12
Date Completed: 10/27/2011	Hair Color: Black	Na/K	8.83	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	13.8	4- 20
	Shampoo: Pantene	Zn/Cd	> 999	> 800

### **Health history for hair test 551**

1. No symptoms. Maybe a little chronic fatigue. Otherwise good health.
2. Not sure. No root canals. Numerous fillings. Done in Japan. Not sure of type of amalgam material used.
3. No dental clean ups yet.
4. Don't know.
5. No vaccines in years. Not sure of longer history.
6. No supplements or medications.
7. 40, 65" tall, 125lbs.
8. None.
9. Kin Town, Okinawa, Japan