

# HAIR ELEMENTS



**PATIENT: Number 304**  
**SEX: Male**  
**AGE: 47**  
**LOCATION: San Francisco, USA**

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	2.9	< 7.0		
Antimony	0.020	< 0.066		
Arsenic	0.025	< 0.080		
Barium	1.2	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.26	< 2.0		
Cadmium	0.093	< 0.065		
Lead	0.43	< 0.80		
Mercury	0.37	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.002	< 0.060		
Nickel	0.24	< 0.20		
Silver	0.16	< 0.08		
Tin	0.18	< 0.30		
Titanium	0.44	< 0.60		
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	918	200- 750					
Magnesium	300	25- 75					
Sodium	39	20- 180					
Potassium	6	9- 80					
Copper	15	11- 30					
Zinc	310	130- 200					
Manganese	0.16	0.08- 0.50					
Chromium	0.43	0.40- 0.70					
Vanadium	0.055	0.018- 0.065					
Molybdenum	0.024	0.025- 0.060					
Boron	0.32	0.40- 3.0					
Iodine	2.1	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	137	150- 220					
Selenium	0.72	0.70- 1.2					
Strontium	4.7	0.30- 3.5					
Sulfur	45700	44000- 50000					
Cobalt	0.025	0.004- 0.020					
Iron	8.7	7.0- 16					
Germanium	0.038	0.030- 0.040					
Rubidium	0.005	0.011- 0.12					
Zirconium	0.035	0.020- 0.44					

SPECIMEN DATA			RATIOS		
<b>COMMENTS:</b>			<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected:	Sample Size:	0.2 g	Ca/Mg	3.06	4- 30
Date Received: 7/31/2009	Sample Type:	Head	Ca/P	6.7	0.8- 8
Date Completed: 8/4/2009	Hair Color:	Blond	Na/K	6.5	0.5- 10
Client Reference:	Treatment:		Zn/Cu	20.7	4- 20
Methodology: ICP-MS	Shampoo:	Shikai Henna Gold	Zn/Cd	> 999	> 800

## **Health history for hair test 304**

**Current symptoms:** Extreme fatigue, insomnia, brain fog, anxiety, depression, allergies, difficulty focusing eyes, sensitivity to light/sound, memory & concentration problems, nausea, weight loss

**Dental history:** 8 amalgams all in place for decades, no root canals, 4 wisdom teeth extracted, braces, 1 amalgam replaced w/o precautions 7 yrs ago.

**Vaccinations:** All commonly given to US children during 1960's

**Supplements:** May have been taking occasional Mg, fish oil, C

**Other info:** Thought I may have had candida so took antifungal (Berberine). Also took probiotics to kill yeast. Testing did not confirm candida but could Hg have been released from yeast die-off?

**Location:** San Francisco, CA