

# HAIR ELEMENTS



LAB#: H0  
 PATIENT:  
 SEX: Female  
 AGE: 48

CLIENT#:  
 DOCTOR:  
 Family Dr  
 245 S Gar  
 Blooming

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	2.4	< 12	██████████	
Antimony	0.025	< 0.060	██████████	
Arsenic	0.12	< 0.090	██████████	
Beryllium	< 0.01	< 0.020		
Bismuth	0.30	< 0.13	██████████	
Cadmium	0.025	< 0.10	██████████	
Lead	0.34	< 1.0	██████████	
Mercury	1.4	< 1.1	██████████	
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.023	< 0.060	██████████	
Nickel	0.46	< 0.40	██████████	
Silver	0.02	< 0.10	██████████	
Tin	0.12	< 0.30	██████████	
Titanium	0.50	< 1.0	██████████	
Total Toxic Representation			██████████	

ELEMENTS	RESULT µg/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	465	475- 1500		██████████			
Magnesium	140	45- 180			██████████		
Sodium	340	24- 180			██████████		
Potassium	150	20- 80			██████████		
Copper	17	9.0- 24			██████████		
Zinc	120	130- 200		██████████			
Manganese	0.41	0.20- 0.65			██████████		
Chromium	0.35	0.20- 0.45			██████████		
Vanadium	0.029	0.018- 0.065			██████████		
Molybdenum	0.088	0.040- 0.10			██████████		
Boron	4.0	0.70- 4.0			██████████		
Iodine	0.57	0.25- 1.3			██████████		
Lithium	0.005	0.008- 0.040			██████████		
Phosphorus	338	350- 600		██████████			
Selenium	0.78	0.95- 1.7		██████████			
Strontium	0.66	1.0- 8.0		██████████			
Sulfur	42200	43000- 50000		██████████			
Barium	0.57	0.50- 5.0		██████████			
Cobalt	0.013	0.013- 0.050		██████████			
Iron	7.6	5.8- 14		██████████			
Germanium	0.037	0.045- 0.065		██████████			
Rubidium	0.16	0.030- 0.25		██████████			
Zirconium	0.19	0.040- 1.0		██████████			

## SPECIMEN DATA

COMMENTS:  
 Date Collected: 4/19/2006  
 Date Received: 4/22/2006  
 Date Completed: 4/25/2006  
 Methodology: ICP-MS

Sample Size: 0.196 g  
 Sample Type: Pubic  
 Hair Color: Brown  
 Treatment: Dye  
 Shampoo: Matrix

## RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	3.32	4- 30
Ca/P	1.38	1- 12
Na/K	2.27	0.5- 10
Zn/Cu	7.06	4- 20
Zn/Cd	> 999	> 800

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