

HAIR ELEMENTS



PATIENT: Number 67
SEX: Male
AGE: 34

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	8.2	< 7.0		
Antimony	0.010	< 0.066		
Arsenic	0.044	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.020	< 0.060		
Cadmium	< 0.009	< 0.15		
Lead	0.08	< 2.0		
Mercury	0.07	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.004	< 0.060		
Nickel	0.07	< 0.40		
Silver	0.06	< 0.12		
Tin	0.07	< 0.30		
Titanium	0.44	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	849	200- 750					
Magnesium	69	25- 75					
Sodium	170	12- 90					
Potassium	56	9- 40					
Copper	16	10- 28					
Zinc	220	130- 200					
Manganese	0.10	0.15- 0.65					
Chromium	0.44	0.20- 0.40					
Vanadium	0.040	0.018- 0.065					
Molybdenum	0.029	0.025- 0.064					
Boron	0.65	0.40- 3.0					
Iodine	0.43	0.25- 1.3					
Lithium	< 0.004	0.007- 0.023					
Phosphorus	234	160- 250					
Selenium	0.96	0.95- 1.7					
Strontium	2.1	0.30- 3.5					
Sulfur	49600	44500- 52000					
Barium	0.76	0.16- 1.6					
Cobalt	0.003	0.013- 0.035					
Iron	5.8	5.4- 13					
Germanium	0.030	0.045- 0.065					
Rubidium	0.059	0.011- 0.12					
Zirconium	0.87	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	2/25/2007	Sample Size:	0.203 g	Ca/Mg	12.3	4- 30
Date Received:	3/1/2007	Sample Type:	Head	Ca/P	3.63	0.8- 8
Date Completed:	3/5/2007	Hair Color:	Brown	Na/K	3.04	0.5- 10
		Treatment:		Zn/Cu	13.8	4- 20
Methodology:	ICP-MS	Shampoo:	Natural Organic	Zn/Cd	> 999	> 800
			V06.99			