

HAIR ELEMENTS



PATIENT: Number 75
SEX: Male
AGE: 51

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	4.4	< 7.0		
Antimony	0.098	< 0.066		
Arsenic	0.032	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.54	< 2.0		
Cadmium	0.032	< 0.15		
Lead	0.23	< 2.0		
Mercury	0.30	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.009	< 0.060		
Nickel	0.23	< 0.40		
Silver	0.04	< 0.12		
Tin	0.16	< 0.30		
Titanium	0.25	< 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	438	200- 750					
Magnesium	36	25- 75					
Sodium	63	12- 90					
Potassium	28	9- 40					
Copper	16	10- 28					
Zinc	150	130- 200					
Manganese	0.08	0.15- 0.65					
Chromium	0.49	0.20- 0.40					
Vanadium	0.038	0.018- 0.065					
Molybdenum	0.026	0.025- 0.064					
Boron	0.59	0.40- 3.0					
Iodine	23	0.25- 1.3					
Lithium	< 0.004	0.007- 0.023					
Phosphorus	141	160- 250					
Selenium	0.75	0.95- 1.7					
Strontium	2.9	0.30- 3.5					
Sulfur	46700	44500- 52000					
Barium	1.2	0.16- 1.6					
Cobalt	0.006	0.013- 0.035					
Iron	7.8	5.4- 13					
Germanium	0.039	0.045- 0.065					
Rubidium	0.025	0.011- 0.12					
Zirconium	0.22	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 4/7/2007	Sample Size: 0.201 g			Ca/Mg	12.2	4- 30
Date Received: 4/17/2007	Sample Type: Head			Ca/P	3.11	0.8- 8
Date Completed: 4/19/2007	Hair Color: Gray			Na/K	2.25	0.5- 10
	Treatment:			Zn/Cu	9.38	4- 20
Methodology: ICP-MS	Shampoo: Suave Clarifying			Zn/Cd	> 999	> 800
	V06.99					