

HAIR ELEMENTS



PATIENT: Hair Test 139
SEX: Male
AGE: 43

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	5.1	< 7.0		
Antimony	0.014	< 0.066		
Arsenic	0.055	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.003	< 2.0		
Cadmium	0.013	< 0.15		
Lead	0.70	< 2.0		
Mercury	0.48	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.040	< 0.060		
Nickel	0.10	< 0.40		
Silver	0.01	< 0.12		
Tin	0.19	< 0.30		
Titanium	0.48	< 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	731	200- 750					
Magnesium	33	25- 75					
Sodium	36	12- 90					
Potassium	46	9- 40					
Copper	14	10- 28					
Zinc	180	130- 200					
Manganese	0.22	0.15- 0.65					
Chromium	0.41	0.20- 0.40					
Vanadium	0.021	0.018- 0.065					
Molybdenum	0.021	0.025- 0.064					
Boron	1.3	0.40- 3.0					
Iodine	0.20	0.25- 1.3					
Lithium	0.004	0.007- 0.023					
Phosphorus	179	160- 250					
Selenium	0.55	0.95- 1.7					
Strontium	0.31	0.30- 3.5					
Sulfur	43200	44500- 52000					
Barium	0.21	0.16- 1.6					
Cobalt	0.016	0.013- 0.035					
Iron	7.2	5.4- 13					
Germanium	0.040	0.045- 0.065					
Rubidium	0.040	0.011- 0.12					
Zirconium	0.060	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 12/26/2007	Sample Size: 0.202 g					
Date Received: 1/3/2008	Sample Type: Head			Ca/Mg	22.2	4- 30
Date Completed: 1/9/2008	Hair Color: Brown			Ca/P	4.08	0.8- 8
	Treatment:			Na/K	0.783	0.5- 10
Methodology: ICP-MS	Shampoo: Herbal Ess			Zn/Cu	12.9	4- 20
				Zn/Cd	> 999	> 800