

HAIR ELEMENTS



PATIENT: Hair Test 137
SEX: Male
AGE: 20

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	2.5	< 7.0		
Antimony	0.023	< 0.066		
Arsenic	0.042	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.22	< 2.0		
Cadmium	< 0.009	< 0.15		
Lead	0.38	< 2.0		
Mercury	0.13	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.036	< 0.060		
Nickel	0.06	< 0.40		
Silver	0.01	< 0.12		
Tin	0.05	< 0.30		
Titanium	0.45	< 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	145	200- 750					
Magnesium	66	25- 75					
Sodium	170	12- 90					
Potassium	6	9- 40					
Copper	12	10- 28					
Zinc	160	130- 200					
Manganese	0.24	0.15- 0.65					
Chromium	0.39	0.20- 0.40					
Vanadium	0.021	0.018- 0.065					
Molybdenum	0.020	0.025- 0.064					
Boron	0.40	0.40- 3.0					
Iodine	0.25	0.25- 1.3					
Lithium	< 0.004	0.007- 0.023					
Phosphorus	156	160- 250					
Selenium	1.2	0.95- 1.7					
Strontium	0.06	0.30- 3.5					
Sulfur	47300	44500- 52000					
Barium	0.13	0.16- 1.6					
Cobalt	0.008	0.013- 0.035					
Iron	7.2	5.4- 13					
Germanium	0.033	0.045- 0.065					
Rubidium	0.009	0.011- 0.12					
Zirconium	0.80	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	Sample Size:	0.197 g	Ca/Mg	2.2	4- 30	
Date Received: 10/31/2007	Sample Type:	Head	Ca/P	0.929	0.8- 8	
Date Completed: 11/2/2007	Hair Color:		Na/K	28.3	0.5- 10	
	Treatment:		Zn/Cu	13.3	4- 20	
Methodology: ICP-MS	Shampoo:		Zn/Cd	> 999	> 800	

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