

HAIR ELEMENTS



PATIENT: Number 94
SEX: Male
AGE: 38
Location: Los Angeles, CA US.

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	5.4	< 12		
Antimony	0.060	< 0.080		
Arsenic	0.071	< 0.12		
Beryllium	< 0.01	< 0.020		
Bismuth	0.027	< 2.0		
Cadmium	0.015	< 0.15		
Lead	0.47	< 2.0		
Mercury	0.29	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.11	< 0.060		
Nickel	0.26	< 0.40		
Silver	0.03	< 0.10		
Tin	0.12	< 0.30		
Titanium	0.37	< 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	1070	375- 1100					
Magnesium	160	40- 140					
Sodium	92	24- 180					
Potassium	38	20- 80					
Copper	91	9.0- 26					
Zinc	130	120- 200					
Manganese	0.16	0.20- 0.65					
Chromium	0.62	0.20- 0.45					
Vanadium	0.062	0.018- 0.065					
Molybdenum	0.045	0.040- 0.10					
Boron	1.7	0.70- 4.0					
Iodine	0.97	0.25- 1.3					
Lithium	0.005	0.008- 0.040					
Phosphorus	244	250- 400					
Selenium	1.1	0.95- 1.7					
Strontium	8.5	1.0- 6.0					
Sulfur	43500	42000- 49000					
Barium	3.0	0.50- 3.0					
Cobalt	0.009	0.013- 0.050					
Iron	15	5.8- 14					
Germanium	0.030	0.045- 0.065					
Rubidium	0.029	0.030- 0.25					
Zirconium	1.2	0.040- 1.0					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	6/1/2007	Sample Size:	0.196 g	Ca/Mg	6.69	4- 30
Date Received:	6/18/2007	Sample Type:	Pubic	Ca/P	4.39	0.8- 8
Date Completed:	6/22/2007	Hair Color:	Black	Na/K	2.42	0.5- 10
Methodology:	ICP-MS	Treatment:		Zn/Cu	1.43	4- 20
		Shampoo:		Zn/Cd	> 999	> 800

V06.99