

HAIR ELEMENTS



PATIENT: Number 97
SEX: Male
AGE: 36
 Location: Cape Town, South Africa

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	16	< 7.0	[Bar chart showing result at 68th percentile]	
Antimony	0.024	< 0.066	[Bar chart showing result at 68th percentile]	
Arsenic	0.065	< 0.080	[Bar chart showing result at 68th percentile]	
Beryllium	< 0.01	< 0.020	[Bar chart showing result at 68th percentile]	
Bismuth	0.024	< 2.0	[Bar chart showing result at 68th percentile]	
Cadmium	0.068	< 0.15	[Bar chart showing result at 68th percentile]	
Lead	1.2	< 2.0	[Bar chart showing result at 68th percentile]	
Mercury	0.83	< 1.1	[Bar chart showing result at 68th percentile]	
Platinum	< 0.003	< 0.005	[Bar chart showing result at 68th percentile]	
Thallium	< 0.001	< 0.010	[Bar chart showing result at 68th percentile]	
Thorium	< 0.001	< 0.005	[Bar chart showing result at 68th percentile]	
Uranium	0.091	< 0.060	[Bar chart showing result at 68th percentile]	
Nickel	0.21	< 0.40	[Bar chart showing result at 68th percentile]	
Silver	0.38	< 0.12	[Bar chart showing result at 68th percentile]	
Tin	0.23	< 0.30	[Bar chart showing result at 68th percentile]	
Titanium	0.32	< 1.0	[Bar chart showing result at 68th percentile]	
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
Calcium	349	200- 750	[Bar chart showing result at 50th percentile]			
Magnesium	23	25- 75	[Bar chart showing result at 50th percentile]			
Sodium	31	12- 90	[Bar chart showing result at 50th percentile]			
Potassium	30	9- 40	[Bar chart showing result at 50th percentile]			
Copper	44	10- 28	[Bar chart showing result at 50th percentile]			
Zinc	170	130- 200	[Bar chart showing result at 50th percentile]			
Manganese	0.38	0.15- 0.65	[Bar chart showing result at 50th percentile]			
Chromium	0.61	0.20- 0.40	[Bar chart showing result at 50th percentile]			
Vanadium	0.093	0.018- 0.065	[Bar chart showing result at 50th percentile]			
Molybdenum	0.021	0.025- 0.064	[Bar chart showing result at 50th percentile]			
Boron	0.87	0.40- 3.0	[Bar chart showing result at 50th percentile]			
Iodine	6.7	0.25- 1.3	[Bar chart showing result at 50th percentile]			
Lithium	< 0.004	0.007- 0.023	[Bar chart showing result at 50th percentile]			
Phosphorus	194	160- 250	[Bar chart showing result at 50th percentile]			
Selenium	0.96	0.95- 1.7	[Bar chart showing result at 50th percentile]			
Strontium	1.2	0.30- 3.5	[Bar chart showing result at 50th percentile]			
Sulfur	48100	44500- 52000	[Bar chart showing result at 50th percentile]			
Barium	0.86	0.16- 1.6	[Bar chart showing result at 50th percentile]			
Cobalt	0.041	0.013- 0.035	[Bar chart showing result at 50th percentile]			
Iron	15	5.4- 13	[Bar chart showing result at 50th percentile]			
Germanium	0.031	0.045- 0.065	[Bar chart showing result at 50th percentile]			
Rubidium	0.034	0.011- 0.12	[Bar chart showing result at 50th percentile]			
Zirconium	0.25	0.020- 0.44	[Bar chart showing result at 50th percentile]			

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 6/11/2007	Sample Size: 0.198 g			Ca/Mg	15.2	4- 30
Date Received: 7/3/2007	Sample Type: Head			Ca/P	1.8	0.8- 8
Date Completed: 7/12/2007	Hair Color: Brown			Na/K	1.03	0.5- 10
	Treatment:			Zn/Cu	3.86	4- 20
Methodology: ICP-MS	Shampoo: Varies			Zn/Cd	> 999	> 800

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