

HAIR ELEMENTS



PATIENT: Number 70
SEX: Male
AGE: 62
Location: Mississauga, Canada

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.1	< 7.0		
Antimony	0.011	< 0.066		
Arsenic	0.043	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.031	< 2.0		
Cadmium	0.030	< 0.15		
Lead	0.16	< 2.0		
Mercury	0.56	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.015	< 0.060		
Nickel	0.13	< 0.40		
Silver	0.02	< 0.12		
Tin	0.04	< 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	200	200- 750					
Magnesium	31	25- 75					
Sodium	15	12- 90					
Potassium	4	9- 40					
Copper	8.9	10- 28					
Zinc	180	130- 200					
Manganese	0.04	0.15- 0.65					
Chromium	0.43	0.20- 0.40					
Vanadium	0.026	0.018- 0.065					
Molybdenum	< 0.01	0.025- 0.064					
Boron	1.2	0.40- 3.0					
Iodine	0.18	0.25- 1.3					
Lithium	< 0.004	0.007- 0.023					
Phosphorus	172	160- 250					
Selenium	0.64	0.95- 1.7					
Strontium	0.39	0.30- 3.5					
Sulfur	45100	44500- 52000					
Barium	0.12	0.16- 1.6					
Cobalt	0.002	0.013- 0.035					
Iron	8.3	5.4- 13					
Germanium	0.030	0.045- 0.065					
Rubidium	0.006	0.011- 0.12					
Zirconium	0.097	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 3/14/2007	Sample Size: 0.203 g			Ca/Mg	6.45	4- 30
Date Received: 3/23/2007	Sample Type: Head			Ca/P	1.16	0.8- 8
Date Completed: 3/28/2007	Hair Color: Brown			Na/K	3.75	0.5- 10
	Treatment:			Zn/Cu	20.2	4- 20
Methodology: ICP-MS	Shampoo: Kirkland			Zn/Cd	> 999	> 800

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