

## HAIR ELEMENTS



LAB#: H080825-0464-1  
 PATIENT:  
 SEX: Male  
 AGE: 75

CLIENT#: 27978  
 DOCTOR: Phillip Dietrich  
 Total Health Clinic

POTENTIALLY TOXIC ELEMENTS								
TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE					
			68 <sup>th</sup>	95 <sup>th</sup>				
Aluminum	1.3	< 12						
Antimony	0.047	< 0.080						
Arsenic	0.23	< 0.12						
Beryllium	< 0.01	< 0.020						
Bismuth	0.010	< 2.0						
Cadmium	0.050	< 0.15						
Lead	1.0	< 2.0						
Mercury	1.7	< 1.1						
Platinum	< 0.003	< 0.005						
Thallium	< 0.001	< 0.010						
Thorium	< 0.001	< 0.005						
Uranium	0.015	< 0.060						
Nickel	0.25	< 0.40						
Silver	0.22	< 0.10						
Tin	0.12	< 0.30						
Titanium	0.46	< 1.0						
Total Toxic Representation								
ESSENTIAL AND OTHER ELEMENTS								
ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE					
			2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>	
Calcium	555	375- 1100						
Magnesium	120	40- 140						
Sodium	86	24- 180						
Potassium	44	20- 80						
Copper	12	9.0- 26						
Zinc	120	120- 200						
Manganese	0.17	0.20- 0.65						
Chromium	0.37	0.20- 0.45						
Vanadium	0.044	0.018- 0.065						
Molybdenum	0.054	0.040- 0.10						
Boron	3.3	0.70- 4.0						
Iodine	0.29	0.25- 1.3						
Lithium	0.005	0.008- 0.040						
Phosphorus	216	250- 400						
Selenium	1.2	0.95- 1.7						
Strontium	3.0	1.0- 6.0						
Sulfur	41700	42000- 49000						
Barium	1.2	0.50- 3.0						
Cobalt	0.012	0.013- 0.050						
Iron	8.2	5.8- 14						
Germanium	0.027	0.045- 0.065						
Rubidium	0.035	0.030- 0.25						
Zirconium	0.049	0.040- 1.0						
SPECIMEN DATA				RATIOS				
<b>COMMENTS:</b> Date Collected: 8/21/2008      Sample Size: 0.197 g Date Received: 8/25/2008      Sample Type: Pubic Date Completed: 8/28/2008      Hair Color: Treatment: Methodology: ICP-MS              Shampoo:				<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>		
				Ca/Mg	4.63	4- 30		
				Ca/P	2.57	0.8- 8		
				Na/K	1.95	0.5- 10		
				Zn/Cu	10	4- 20		
				Zn/Cd	> 999	> 800		