

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	29	< 7.0		
Antimony	0.094	< 0.066		
Arsenic	0.085	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.035	< 0.060		
Cadmium	0.038	< 0.15		
Lead	0.51	< 2.0		
Mercury	0.51	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.013	< 0.060		
Nickel	0.27	< 0.40		
Silver	0.04	< 0.12		
Tin	0.11	< 0.30		
Titanium	0.28	< 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	482	200- 750					
Magnesium	32	25- 75					
Sodium	110	12- 90					
Potassium	58	9- 40					
Copper	19	10- 28					
Zinc	160	130- 200					
Manganese	0.10	0.15- 0.65					
Chromium	0.36	0.20- 0.40					
Vanadium	0.028	0.018- 0.065					
Molybdenum	0.021	0.025- 0.064					
Boron	3.1	0.40- 3.0					
Iodine	0.19	0.25- 1.3					
Lithium	0.041	0.007- 0.023					
Phosphorus	163	160- 250					
Selenium	0.79	0.95- 1.7					
Strontium	0.54	0.30- 3.5					
Sulfur	50300	44500- 52000					
Barium	0.18	0.16- 1.6					
Cobalt	0.002	0.013- 0.035					
Iron	3.7	5.4- 13					
Germanium	0.032	0.045- 0.065					
Rubidium	0.051	0.011- 0.12					
Zirconium	0.034	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS: A071124				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 4/2/2007	Sample Size: 0.2 g					
Date Received: 9/2/2007	Sample Type: Head			Ca/Mg	15.1	4- 30
Date Completed: 12/2/2007	Hair Color:			Ca/P	2.96	0.8- 8
Methodology: ICP-MS	Treatment:			Na/K	1.9	0.5- 10
	Shampoo:			Zn/Cu	8.42	4- 20
				Zn/Cd	> 999	> 800

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