

HAIR ELEMENTS



POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE
			green 68 th yellow 95 th red
Aluminum	18	< 7.0	
Antimony	0.057	< 0.050	
Arsenic	0.079	< 0.060	
Beryllium	< 0.01	< 0.020	
Bismuth	0.24	< 2.0	
Cadmium	2.2	< 0.10	
Lead	35	< 1.0	
Mercury	0.77	< 1.1	
Platinum	< 0.003	< 0.005	
Thallium	0.001	< 0.010	
Thorium	< 0.001	< 0.005	
Uranium	0.23	< 0.060	
Nickel	0.17	< 0.40	
Silver	2.3	< 0.15	
Tin	0.09	< 0.30	
Titanium	0.30	< 1.0	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE
			red 2.5 th yellow 16 th green 50 th 84 th yellow 97.5 th red
Calcium	1380	300- 1200	
Magnesium	100	35- 120	
Sodium	12	12- 90	
Potassium	4	8- 38	
Copper	260	12- 35	
Zinc	230	140- 220	
Manganese	0.53	0.15- 0.65	
Chromium	0.44	0.20- 0.40	
Vanadium	0.24	0.018- 0.065	
Molybdenum	0.080	0.028- 0.056	
Boron	3.5	0.30- 2.0	
Iodine	0.43	0.25- 1.3	
Lithium	0.008	0.007- 0.023	
Phosphorus	190	160- 250	
Selenium	1.0	0.95- 1.7	
Strontium	11	0.50- 7.6	
Sulfur	51600	44500- 52000	
Barium	0.58	0.26- 3.0	
Cobalt	0.011	0.013- 0.050	
Iron	12	5.4- 14	
Germanium	0.032	0.045- 0.065	
Rubidium	0.006	0.007- 0.096	
Zirconium	0.067	0.020- 0.42	

SPECIMEN DATA

COMMENTS:

Date Collected: 12/10/2007
 Date Received: 12/13/2007
 Date Completed: 12/15/2007

Sample Size: 0.202 g
 Sample Type: Head
 Hair Color: Brown
 Treatment:
 Shampoo: Aubrey

Methodology: ICP-MS

V06.99

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	13.8	4- 30
Ca/P	7.26	1- 12
Na/K	3	0.5- 10
Zn/Cu	0.885	4- 20
Zn/Cd	105	> 800