

HAIR ELEMENTS



PATIENT: Hair Test 55
SEX: Male
AGE: 55

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	1.8	< 7.0		
Antimony	< 0.01	< 0.066		
Arsenic	0.035	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.081	< 2.0		
Cadmium	0.059	< 0.15		
Lead	0.42	< 2.0		
Mercury	0.57	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.010		
Thorium	0.001	< 0.005		
Uranium	0.015	< 0.060		
Nickel	0.26	< 0.40		
Silver	0.05	< 0.12		
Tin	0.11	< 0.30		
Titanium	0.46	< 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	1790	200- 750					
Magnesium	130	25- 75					
Sodium	86	12- 90					
Potassium	11	9- 40					
Copper	33	10- 28					
Zinc	220	130- 200					
Manganese	0.15	0.15- 0.65					
Chromium	0.29	0.20- 0.40					
Vanadium	0.023	0.018- 0.065					
Molybdenum	0.061	0.025- 0.064					
Boron	0.72	0.40- 3.0					
Iodine	0.23	0.25- 1.3					
Lithium	0.015	0.007- 0.023					
Phosphorus	178	160- 250					
Selenium	51	0.95- 1.7					
Strontium	25	0.30- 3.5					
Sulfur	45200	44500- 52000					
Barium	2.6	0.16- 1.6					
Cobalt	0.030	0.013- 0.035					
Iron	15	5.4- 13					
Germanium	0.034	0.045- 0.065					
Rubidium	0.010	0.011- 0.12					
Zirconium	0.092	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	3/9/2007	Sample Size:	0.191 g	Ca/Mg	13.8	4- 30
Date Received:	3/15/2007	Sample Type:	Head	Ca/P	10.1	0.8- 8
Date Completed:	3/20/2007	Hair Color:	Brown	Na/K	7.82	0.5- 10
		Treatment:		Zn/Cu	6.67	4- 20
Methodology:	ICP-MS	Shampoo:	Cus Baby	Zn/Cd	> 999	> 800