



PATIENT: Number 800
 SEX: Female
 AGE: 50

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.9	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	< 0.01	< 0.060	
Barium (Ba)	1.3	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.069	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.15	< 0.60	
Mercury (Hg)	0.33	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.002	< 0.060	
Nickel (Ni)	0.20	< 0.30	
Silver (Ag)	0.17	< 0.15	
Tin (Sn)	0.03	< 0.30	
Titanium (Ti)	0.56	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)	1200	300- 1200	
Magnesium (Mg)	83	35- 120	
Sodium (Na)	12	20- 250	
Potassium (K)	4	8- 75	
Copper (Cu)	11	11- 37	
Zinc (Zn)	190	140- 220	
Manganese (Mn)	0.12	0.08- 0.60	
Chromium (Cr)	0.31	0.40- 0.65	
Vanadium (V)	0.014	0.018- 0.065	
Molybdenum (Mo)	0.017	0.020- 0.050	
Boron (B)	0.36	0.25- 1.5	
Iodine (I)	0.59	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	162	150- 220	
Selenium (Se)	0.67	0.55- 1.1	
Strontium (Sr)	2.3	0.50- 7.6	
Sulfur (S)	46500	44000- 50000	
Cobalt (Co)	0.076	0.005- 0.040	
Iron (Fe)	6.9	7.0- 16	
Germanium (Ge)	0.030	0.030- 0.040	
Rubidium (Rb)	0.005	0.007- 0.096	
Zirconium (Zr)	0.076	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 06/15/2013	Sample Size: 0.198 g	Ca/Mg	14.5
Date Received: 06/20/2013	Sample Type: Head	Ca/P	7.41
Date Completed: 06/24/2013	Hair Color: Brown	Na/K	3
Methodology: ICP/MS	Treatment: Dye	Zn/Cu	17.3
	Shampoo: Aubrey	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 800

- 1) Current Symptoms and health history: currently experiencing acid-reflux-like symptoms and maybe ibs; generally good health history – no major problems
- 2) Dental history: 3 of 4 wisdom teeth removed ~20 years ago; no root canals; braces for about 6 months as a child; 6 amalgams as child
- 3) Dental work in place/dental clean-up – 6 amalgams removed about 3 months ago
- 4) Mother's dentistry – not known
- 5) Vaccinations – no flu shots; only vaccinations required for travel to Kenya 20 years ago
- 6) Supplements at time of hair test – 200 mg CoQ10 daily; Vit. D3 serum; fermented cod liver oil, ~1/2 tsp daily
- 7) Age, height, weight: 50, 5'4, 118
- 8) Other information: none
- 9) Location: Silver Spring, Maryland; USA