

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	68 th PERCENTILE 95 th
Aluminum (Al)		5.0	< 7.0	
Antimony (Sb)		0.023	< 0.050	
Arsenic (As)		0.024	< 0.060	
Barium (Ba)		0.35	< 2.0	
Beryllium (Be)		< 0.01	< 0.020	
Bismuth (Bi)		0.004	< 2.0	
Cadmium (Cd)		0.014	< 0.050	
Lead (Pb)		0.26	< 0.60	
Mercury (Hg)		0.92	< 0.80	
Platinum (Pt)		< 0.003	< 0.005	
Thallium (Tl)		< 0.001	< 0.002	
Thorium (Th)		< 0.001	< 0.002	
Uranium (U)		0.001	< 0.060	
Nickel (Ni)		0.06	< 0.30	
Silver (Ag)		0.02	< 0.15	
Tin (Sn)		0.27	< 0.30	
Titanium (Ti)		0.28	< 0.70	
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS				
		RESULT µg/g	REFERENCE INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)		473	300- 1200	
Magnesium (Mg)		79	35- 120	
Sodium (Na)		27	20- 250	
Potassium (K)		25	8- 75	
Copper (Cu)		18	11- 37	
Zinc (Zn)		240	140- 220	
Manganese (Mn)		0.40	0.08- 0.60	
Chromium (Cr)		0.41	0.40- 0.65	
Vanadium (V)		0.038	0.018- 0.065	
Molybdenum (Mo)		0.031	0.020- 0.050	
Boron (B)		0.31	0.25- 1.5	
Iodine (I)		0.30	0.25- 1.8	
Lithium (Li)		< 0.004	0.007- 0.020	
Phosphorus (P)		171	150- 220	
Selenium (Se)		0.85	0.55- 1.1	
Strontium (Sr)		2.0	0.50- 7.6	
Sulfur (S)		47500	44000- 50000	
Cobalt (Co)		0.010	0.005- 0.040	
Iron (Fe)		7.3	7.0- 16	
Germanium (Ge)		0.030	0.030- 0.040	
Rubidium (Rb)		0.057	0.007- 0.096	
Zirconium (Zr)		0.015	0.020- 0.42	

COMMENTS:	SPECIMEN DATA		RATIOS		
			ELEMENTS	RATIOS	RANGE
Date Collected: 8/26/2012	Sample Size: 0.198 g		Ca/Mg	5.99	4- 30
Date Received: 8/30/2012	Sample Type: Head		Ca/P	2.77	1- 12
Date Completed: 9/1/2012	Hair Color:		Na/K	1.08	0.5- 10
Methodology: ICP/MS	Treatment:		Zn/Cu	13.3	4- 20
	Shampoo: Everyday Shea		Zn/Cd	> 999	> 800

Health history for hair test 663

1. What are your current symptoms and health history? - Fatima Zenner: forgetfulness
2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)- Fatima Zenner: wisdom teeth removed in 1992, current age:40 Root Canal, at age 30. Braces in 2004-2006.
3. What dental work do you currently have in place? What part of the dental clean-up have you completed? Fatima: NA, daily brushing/flossing
4. What dentistry did your mother have at any time before or during pregnancy? -Fatima: none.
5. What vaccinations have you had and when (including flu and especially travel shots)?- Fatima: flu shot, tb shot, polio shot, rhogam shot (while pregnant)
6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? Fatima: none
7. What is your age, height and weight? Fatima: 40yrs old, 135lbs, 5'6
8. Other information you feel may be relevant? Fatima: none.
9. What is your location – city & country (so that we can learn where certain toxins are more prevalent). Fatima: Tigard, Oregon, United States.