

Toxic & Essential Elements; Hair

Defer to your doctor

TOXIC METALS				PERCENTILE	
		RESULT µg/g	REFERENCE INTERVAL	68 th	95 th
Aluminum	(Al)	3.4	< 7.0	MTC exp exp	
Antimony	(Sb)	0.020	< 0.050		
Arsenic	(As)	0.024	< 0.060		
Barium	(Ba)	4.4	< 2.0	+ carbonates	
Beryllium	(Be)	< 0.01	< 0.020	art	
Bismuth	(Bi)	0.010	< 2.0	As oxide	
Cadmium	(Cd)	0.027	< 0.050		
Lead	(Pb)	0.33	< 0.60		
Mercury	(Hg)	0.90	< 0.80	Metal Away GSH	
Platinum	(Pt)	< 0.003	< 0.005	+ All in One	
Thallium	(Tl)	< 0.001	< 0.002		
Thorium	(Th)	0.002	< 0.002		
Uranium	(U)	0.18	< 0.060	SHMT exp	
Nickel	(Ni)	0.13	< 0.30		
Silver	(Ag)	0.18	< 0.15	+ neon stable	
Tin + SDE	(Sn)	4.0	< 0.30		
Titanium	(Ti)	0.41	< 0.70	+ taking exp	
Total Toxic Representation				Wonderful	

ESSENTIAL AND OTHER ELEMENTS				PERCENTILE				
		RESULT µg/g	REFERENCE INTERVAL	25 th	16 th	50 th	84 th	97.5 th
Calcium	(Ca)	2810	300- 1200	Wow!				
Magnesium	(Mg)	200	35- 120	Wow!				
Sodium	(Na)	30	20- 250	Wow!				
Potassium	(K)	10	8- 75	Wow!				
Copper	(Cu)	31	11- 37	Wow!				
Zinc	(Zn)	190	140- 220	Wow!				
Manganese	(Mn)	0.67	0.08- 0.60	Wow!				
Chromium	(Cr)	0.30	0.40- 0.65	Wow!				
Vanadium	(V)	0.12	0.018- 0.065	Wow!				
Molybdenum	(Mo)	0.021	0.020- 0.050	Wow!				
Boron	(B)	0.78	0.25- 1.5	Wow!				
Iodine	(I)	2.1	0.25- 1.8	Wow!				
Lithium	(Li)	0.031	0.007- 0.020	Wow!				
Phosphorus	(P)	169	150- 220	Wow!				
Selenium	(Se)	0.54	0.55- 1.1	Wow!				
Strontium	(Sr)	12	0.50- 7.6	Wow!				
Sulfur	(S)	47300	44000- 50000	Wow!				
Cobalt	(Co)	0.020	0.005- 0.040	Wow!				
Iron	(Fe)	14	7.0- 16	Wow!				
Germanium	(Ge)	0.023	0.030- 0.040	Wow!				
Rubidium	(Rb)	0.017	0.007- 0.096	Wow!				
Zirconium	(Zr)	0.034	0.020- 0.42	Wow!				

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 07/30/2013	Sample Size: 0.2 g	Ca/Mg	14.1	4- 30
Date Received: 08/02/2013	Sample Type: Head	Ca/P	16.6	1- 12
Date Completed: 08/04/2013	Hair Color: Brown	Na/K	3	0.5- 10
Methodology: ICP/MS	Treatment: Dye	Zn/Cu	6.13	4- 20
	Shampoo: Redken	Zn/Cd	> 999	> 800

Toxic Metals; Feces

+ either Indole 3 carbinol or Brocc. Max
 better, ME 04217 USA

TOXIC METALS				
+ GSA + Metal Away	RESULT mg/kg Dry Wt	REFERENCE INTERVAL	PERCENTILE	
			68 th	95 th
Mercury <i>if tolerated</i> (Hg)	0.456	<.05 w/o amalgams*	[Bar chart showing 0.456 is between 68th and 95th percentiles]	
Mercury <i>+ low dose</i> (Hg)	0.456	<0.5 with amalgams*	[Bar chart showing 0.456 is between 68th and 95th percentiles]	
Antimony (Sb)	0.033	< 0.080	[Bar chart showing 0.033 is between 68th and 95th percentiles]	
Arsenic (As)	0.29	< 0.30	[Bar chart showing 0.29 is between 68th and 95th percentiles]	
Beryllium (Be)	0.005	< 0.009	[Bar chart showing 0.005 is between 68th and 95th percentiles]	
Bismuth (Bi)	0.011	< 0.050	[Bar chart showing 0.011 is between 68th and 95th percentiles]	
Cadmium (Cd)	0.27	< 0.50	[Bar chart showing 0.27 is between 68th and 95th percentiles]	
Copper (Cu)	71	< 60	[Bar chart showing 71 is above 95th percentile]	
Lead (Pb)	0.27	< 0.50	[Bar chart showing 0.27 is between 68th and 95th percentiles]	
Nickel (Ni)	8.2	< 8.0	[Bar chart showing 8.2 is above 95th percentile]	
Platinum (Pt)	< dl	< 0.003	[Bar chart showing < dl is between 68th and 95th percentiles]	
Thallium (Tl)	0.017	< 0.020	[Bar chart showing 0.017 is between 68th and 95th percentiles]	
Tungsten (W)	0.500	< 0.090	[Bar chart showing 0.500 is above 95th percentile]	
Uranium <i>+ SHMT support</i>	0.469	< 0.120	[Bar chart showing 0.469 is above 95th percentile]	

oh my gosh
 Run HHT to be sure Selenium is in balance
 + EDTA soap daily

WATER CONTENT						
	RESULT % H ₂ O	REFERENCE INTERVAL	MEAN			
			-2SD	-1SD	+1SD +2SD	
% Water Content	71.3	60 - 85%	[Bar chart showing 71.3 is between -1SD and +1SD]			

INFORMATION

Analysis of elements in feces provides a comprehensive evaluation of environmental exposure, accumulation and endogenous detoxification of potentially toxic metals. For several toxic elements such as mercury, cadmium, lead, antimony and uranium, biliary excretion of metals into feces is the primary natural route of elimination from the body. Studies performed at DDI demonstrate that the fecal mercury content and number of amalgam surfaces are highly correlated, as is the case for post-DMPS urine mercury levels and amalgam surface area.

Results are reported as mg/kg dry weight of feces to eliminate the influence of variability in water content of fecal specimens. The reference values that appear in this report have been derived from both published data and in-house studies at DDI. *Due to exposure to mercury in the oral cavity, people with dental amalgams typically have a considerably higher level of mercury in the feces than individuals without dental amalgams; therefore, two reference ranges have been established for mercury.

To provide guidance in interpretation of results, patient values are plotted graphically with respect to percentile distribution of the population base. Since this test reflects both biliary excretion and exposure (metals to which the patient is exposed may not be absorbed), it may not correlate with overt clinical effects. Further testing can assist in determining whether the metals are from endogenous (biliary excretion) or exogenous (oral exposure) sources.

1. Bjorkman, L, Sandborgh-Englund, G, and Ekstrand, J. Mercury in Saliva and Feces after Removal of Amalgam Fillings. *Toxicology & Applied Pharmacology* 144: 156-162 (1997)
2. Zalups, R, Progressive Losses of Renal Mass and the Renal and Hepatic Disposition of Administered Inorganic Mercury. *Toxicology & Applied Pharmacology* 130: 121-131 (1995)
3. Adamsson, E., Piscator, M., and Nogawa, K., Pulmonary and Gastrointestinal Exposure to Cadmium Oxide Dust in a Battery Factory. *Environmental Health Perspectives*, 28: 219-222 (1979)
4. Smith, J., et al., The Kinetics of Intravenously Administered Methyl Mercury in Man. *Toxicology & Applied Pharmacology* 128:251-256 (1994)
5. Bass, D., et al., "Measurement of Mercury in Feces", Poster presentation 1999 AACC

+ PERP
 + DHA
 CHECK LITHIUM
 once lithium is in balance can look at

SPECIMEN DATA

Comments:

Date Collected: 04/23/2013 Provocation: Dental Amalgams: Yes
 Date Received: 04/26/2013 Detoxification Agent: Quantity:
 Date Completed: 05/04/2013 Dosage: Methodology: ICP-MS V08.10

route support

Health history for hair test 864

- What are your current symptoms and health history? [polymyalgia rheumatica \(recovered 75%\), mental fog, low grade depression, anxiety, fatigue, muscle pain](#) ,
- Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) [yes removed around 20 years ago, root canal 30 years ago, braces 35 years ago along with amalgam fillings \(8\) all of which were replaced 6 years ago with new amalgams.....THESE FILLINGS ARE HUGE...MORE LIKE CROWNS AND COVER MAJORITY OF MY LOWER TEETH](#)
- What dental work do you currently have in place? What part of the dental clean-up have you completed? [scheduled to have all amalgams removed and root canal tooth removed in 4 weeks](#)
- What dentistry did your mother have at any time before or during pregnancy? [extensive](#)
- What vaccinations have you had and when (including flu and especially travel shots)? [hep a,c, dengue, yellow fever...too many to remember since I traveled in africa](#)
- Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? [d, c, e, fish oil, multi, magnesium citrate, gaba, cal glucarate](#)
- What is your age, height and weight? [61, 5'3", 135lbs](#)
- Other information you feel may be relevant? [have gene mutations which affect methylation, detox of mercury, vit b sensitivity.....MAO++, MTRR A66G, CSOMT ++, CBS](#)
- What is your location – city & country (so that we can learn where certain toxins are more prevalent). [SAN DIEGO, CA](#)