

HAIR TOXIC ELEMENT EXPOSURE PROFILE



SEX: Female

AGE: 40

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Arsenic	0.039	< 0.22		
Lead	2.2	< 4.0		
Mercury	3.0	< 3.0		
Cadmium	0.062	< 0.50		
Chromium	0.27	< 0.75		
Beryllium	< 0.01	< 0.050		
Cobalt	0.010	< 0.15		
Nickel	0.16	< 1.0		
Zinc	160	< 350		
Copper	56	< 45		
Thorium	< 0.001	< 0.010		
Thallium	< 0.001	< 0.020		
Barium	0.15	< 12		
Cesium	< 0.002	< 0.010		
Manganese	0.28	< 1.5		
Selenium	1.2	< 2.7		
Bismuth	0.019	< 0.55		
Vanadium	0.027	< 0.30		
Silver	1.5	< 0.60		
Antimony	0.039	< 0.20		
Palladium	< 0.004	< 0.010		
Aluminum	13	< 30		
Platinum	< 0.003	< 0.010		
Tungsten	< 0.01	< 0.020		
Tin	0.11	< 0.80		
Uranium	0.008	< 0.20		
Gold	0.10	< 0.40		
Tellurium	< 0.05	< 0.050		
Germanium	0.039	< 0.085		
Titanium	0.65	< 2.0		
Gadolinium	< 0.001	< 0.008		

SPECIMEN DATA

Comments:

Date Collected: 5/15/2005

Date Received: 5/19/2005

Date Completed: 5/21/2005

Methodology: ICP-MS

µg/g = ppm

Sample Size: 0.203 g

Sample Type: Pubic

Hair Color:

Treatment:

Shampoo:

Metals are listed in descending priority order based upon data from the Agency for Toxic Substances and Disease Registry, which considers not only the relative toxicity per gram metal, but also the frequency for occurrence of exposure.



SEX: Female
AGE: 48

Toxic Metals; Urine

TOXIC METALS					
	RESULT µg/g creat	REFERENCE INTERVAL	WITHIN REFERENCE		
			OUTSIDE REFERENCE		
Aluminum (Al)	21	< 35	[Bar chart showing result within reference range]		
Antimony (Sb)	1.1	< 0.2	[Bar chart showing result outside reference range]		
Arsenic (As)	43	< 80	[Bar chart showing result within reference range]		
Barium (Ba)	41	< 7	[Bar chart showing result outside reference range]		
Beryllium (Be)	< dl	< 1	[Bar chart showing result within reference range]		
Bismuth (Bi)	< dl	< 4	[Bar chart showing result within reference range]		
Cadmium (Cd)	0.3	< 1	[Bar chart showing result within reference range]		
Cesium (Cs)	18	< 10	[Bar chart showing result within reference range]		
Gadolinium (Gd)	< dl	< 0.8	[Bar chart showing result within reference range]		
Lead (Pb)	9.1	< 2	[Bar chart showing result outside reference range]		
Mercury (Hg)	13	< 4	[Bar chart showing result outside reference range]		
Nickel (Ni)	5.4	< 10	[Bar chart showing result within reference range]		
Palladium (Pd)	< dl	< 0.15	[Bar chart showing result within reference range]		
Platinum (Pt)	< dl	< 0.1	[Bar chart showing result within reference range]		
Tellurium (Te)	< dl	< 0.5	[Bar chart showing result within reference range]		
Thallium (Tl)	0.5	< 0.5	[Bar chart showing result within reference range]		
Thorium (Th)	< dl	< 0.03	[Bar chart showing result within reference range]		
Tin (Sn)	0.7	< 5	[Bar chart showing result within reference range]		
Tungsten (W)	< dl	< 0.4	[Bar chart showing result within reference range]		
Uranium (U)	< dl	< 0.04	[Bar chart showing result within reference range]		

URINE CREATININE					
	RESULT mg/dL	REFERENCE INTERVAL	WITHIN REFERENCE		
			OUTSIDE REFERENCE		
Creatinine	21.1	35 - 225	[Bar chart showing result outside reference range]		

SPECIMEN DATA			
Comments:			
Date Collected: 08/07/2013	pH upon receipt: Acceptable	Collection Period: <u>timed: 6 hours</u>	
Date Received: 08/09/2013	<dl: less than detection limit	Volume: [Circled]	
Date Completed: 08/10/2013	Provoking Agent: <u>DMSA</u>	Provocation: <u>POST PROVOCATIVE</u>	
Method: ICP-MS	Creatinine by Jaffe Method		
Results are creatinine corrected to account for urine dilution variations. Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.			
V13			



SEX: Female
AGE: 50

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	7.1	< 7.0	
Antimony (Sb)	0.038	< 0.050	
Arsenic (As)	0.031	< 0.060	
Barium (Ba)	1.7	< 2.0	
Beryllium (Be)	0.010	< 0.020	
Bismuth (Bi)	0.78	< 2.0	
Cadmium (Cd)	0.025	< 0.050	
Lead (Pb)	2.9	< 0.60	
Mercury (Hg)	2.1	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.006	< 0.060	
Nickel (Ni)	0.27	< 0.30	
Silver (Ag)	1.0	< 0.15	
Tin (Sn)	0.33	< 0.30	
Titanium (Ti)	0.89	< 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)	535	300- 1200			
Magnesium (Mg)	26	35- 120			
Sodium (Na)	3	20- 250			
Potassium (K)	4	8- 75			
Copper (Cu)	150	11- 37			
Zinc (Zn)	280	140- 220			
Manganese (Mn)	0.28	0.08- 0.60			
Chromium (Cr)	0.42	0.40- 0.65			
Vanadium (V)	0.14	0.018- 0.065			
Molybdenum (Mo)	0.036	0.020- 0.050			
Boron (B)	0.93	0.25- 1.5			
Iodine (I)	2.6	0.25- 1.8			
Lithium (Li)	0.021	0.007- 0.020			
Phosphorus (P)	153	150- 220			
Selenium (Se)	0.97	0.55- 1.1			
Strontium (Sr)	1.4	0.50- 7.6			
Sulfur (S)	49000	44000- 50000			
Cobalt (Co)	0.016	0.005- 0.040			
Iron (Fe)	9.3	7.0- 16			
Germanium (Ge)	0.033	0.030- 0.040			
Rubidium (Rb)	0.015	0.007- 0.096			
Zirconium (Zr)	0.26	0.020- 0.42			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 07/17/2015		Ca/Mg	20.6
Date Received: 07/20/2015		Ca/P	3.5
Date Completed: 07/22/2015		Na/K	0.75
Methodology: ICP/MS		Zn/Cu	1.87
Sample Size: 0.197 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Variety			
		RANGE	
		4- 30	
		1- 12	
		0.5- 10	
		4- 20	
		> 800	

Hair Test 1112

Current symptoms: tinnitus, brain fog, fatigue, neuropathy, adrenal fatigue, low thyroid (cant get T3 into 50% or higher of ideal range even with thyroid meds), chronic tendonitis, high Hemoglobin A1c and blood sugar (despite eating no sugar). I tend to be susceptible to whatever is going around so I have a weak immune system. I have pretty much had these same symptoms for a long time.

Dental history: I had 4 large amalgams removed almost two years ago with a biologic dentist, had a root canal twenty years ago (still there), wore braces for a year. **When I had this hair test done I still had the amalgams.**

My mother had a mouth full of amalgams – I was her first child.

I have had all the required vaccinations (MMR etc) also tetnus, yellow fever, hep A three years ago

At the time of this hair test I don't think I was taking any supplements. I lived in Michigan and then New York City for twenty years each.

Second test

This was done two years ago. I had not had my 4 large amalgams taken out yet. I had done some IV with the PK protocol which includes Vitamin C, glutathione, and butyrate prior to this test. I did this because I had very high blood mercury levels (25) in 20011. I don't know if you look at urine tests but since I have it I thought I would send it.