

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum	(Al)	3.6	< 7.0	
Antimony	(Sb)	< 0.01	< 0.066	
Arsenic	(As)	0.098	< 0.080	
Barium	(Ba)	0.96	< 1.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.005	< 2.0	
Cadmium	(Cd)	0.022	< 0.065	
Lead	(Pb)	0.52	< 0.80	
Mercury	(Hg)	3.9	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	< 0.001	< 0.002	
Uranium	(U)	0.034	< 0.060	
Nickel	(Ni)	0.25	< 0.20	
Silver	(Ag)	0.05	< 0.08	
Tin	(Sn)	0.18	< 0.30	
Titanium	(Ti)	0.28	< 0.60	
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)	463	200- 750	
Magnesium	(Mg)	150	25- 75	
Sodium	(Na)	36	20- 180	
Potassium	(K)	22	9- 80	
Copper	(Cu)	11	11- 30	
Zinc	(Zn)	140	130- 200	
Manganese	(Mn)	0.07	0.08- 0.50	
Chromium	(Cr)	0.37	0.40- 0.70	
Vanadium	(V)	0.028	0.018- 0.065	
Molybdenum	(Mo)	0.030	0.025- 0.060	
Boron	(B)	1.3	0.40- 3.0	
Iodine	(I)	0.85	0.25- 1.8	
Lithium	(Li)	0.009	0.007- 0.020	
Phosphorus	(P)	144	150- 220	
Selenium	(Se)	0.70	0.70- 1.2	
Strontium	(Sr)	3.2	0.30- 3.5	
Sulfur	(S)	46700	44000- 50000	
Cobalt	(Co)	0.007	0.004- 0.020	
Iron	(Fe)	8.0	7.0- 16	
Germanium	(Ge)	0.026	0.030- 0.040	
Rubidium	(Rb)	0.028	0.011- 0.12	
Zirconium	(Zr)	0.018	0.020- 0.44	

COMMENTS:	SPECIMEN DATA		RATIOS		
	ELEMENTS	RATIOS	RANGE		
Date Collected: 04/23/2014	Ca/Mg	3.09	4- 30		
Date Received: 05/07/2014	Ca/P	3.22	0.8- 8		
Date Completed: 05/10/2014	Na/K	1.64	0.5- 10		
Methodology: ICP/MS	Zn/Cu	12.7	4- 20		
	Zn/Cd	> 999	> 800		

Sample Size: 0.199 g
Sample Type: Head
Hair Color:
Treatment:



HAIR TEST: 984b follow-up
 SEX: Male
 AGE: 55

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.8	< 7.0	
Antimony (Sb)	0.010	< 0.066	
Arsenic (As)	0.066	< 0.080	
Barium (Ba)	7.0	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.40	< 0.80	
Mercury (Hg)	1.8	< 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)	0.24	< 0.20	
Silver (Ag)	0.05	< 0.08	
Tin (Sn)	0.34	< 0.30	
Titanium (Ti)	0.34	< 0.60	
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)	2100	200- 750			
Magnesium (Mg)	310	25- 75			
Sodium (Na)	25	20- 180			
Potassium (K)	11	9- 80			
Copper (Cu)	11	11- 30			
Zinc (Zn)	170	130- 200			
Manganese (Mn)	0.26	0.08- 0.50			
Chromium (Cr)	0.36	0.40- 0.70			
Vanadium (V)	0.021	0.018- 0.065			
Molybdenum (Mo)	0.021	0.025- 0.060			
Boron (B)	0.39	0.40- 3.0			
Iodine (I)	0.63	0.25- 1.8			
Lithium (Li)	0.008	0.007- 0.020			
Phosphorus (P)	158	150- 220			
Selenium (Se)	0.66	0.70- 1.2			
Strontium (Sr)	16	0.30- 3.5			
Sulfur (S)	45200	44000- 50000			
Cobalt (Co)	0.013	0.004- 0.020			
Iron (Fe)	13	7.0- 16			
Germanium (Ge)	0.032	0.030- 0.040			
Rubidium (Rb)	0.013	0.011- 0.12			
Zirconium (Zr)	0.010	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 10/18/2015	Sample Size: 0.199 g	Ca/Mg	6.77	4- 30
Date Received: 10/29/2015	Sample Type: Head	Ca/P	13.3	0.8- 8
Date Completed: 10/31/2015	Hair Color: Blond	Na/K	2.27	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	15.5	4- 20
	Shampoo: Organic	Zn/Cd	> 999	> 800

Health history for hair test 984 (follow-up history)

1) What are your current symptoms and health history?

- still very photosensitive, less frequent migranes now which are reducing in intensity, more general energy, still very sensitive to exercise and fatigue which provoke redistribution symptoms.

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

15 amalgams in adolescence. Several were redone 3 years ago creating symptoms.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

All amalgams removed cleanly, main work finished in Sept 2013

A crown was replaced in Jan 2013 and amalgam cleanly removed from below it.

Three months FDC with DMPS

Four months FDC with ALA and DMSA

Hair test 984 was done at this stage.

Three more months FDC with ALA and DMSA

Two months with ALA only. Now at 25mg/3hrs

4) What dentistry did your mother have at any time before or during pregnancy?

Unknown

5) What vaccinations have you had and when (including flu and especially travel shots)?

Flu, Yellow fever 20 years ago

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Vit C 500mg 4-5 times per day (1000mg on round)

Vit E 1000 IU morning

Zinc 50mg morning

Magnesium 250mg morning

Selenium 100ug morning (200ug on round)

Fish oil, occasional Taurine

7) What is your age, height and weight?

55 years old, 1m80, 58kg

8) Other information you feel may be relevant?

I became intolerant to even the smallest doses of DMSA and DMPS

9) What is your location - city & country (so that we can learn where certain toxins are more prevalent).

New Caledonia, South Pacific

Health history for hair test 984

1) What are your current symptoms and health history?

Migrains, Photosensitivity, IBS, Fatigue, Exercise intolerance, Very dry skin,

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

15 amalgams in adolescence. Several were redone 3 years ago creating symptoms.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

All amalgams removed cleanly, main work finished in Sept 2013

A crown was replaced in Jan 2013 and amalgam cleanly removed from below it.

Three months FDC with DMPS

Four months FDC with ALA and DMSA

4) What dentistry did your mother have at any time before or during pregnancy?

Unknown

5) What vaccinations have you had and when (including flu and especially travel shots)?

Flu, Yellow fever

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Vit B, C, E Zinc, Magnesium, Selenium (yeast), Milk thistle, Curcuma, Fish oil

Standard dosages recommended on Forum.

7) Other information you feel may be relevant?

1st Provocation test Mai 2013 with 500mg/1 hour gave 93ug/g creatinine

2nd Provocation test Dec 2013 with 500mg/1 hour gave 24ug/g creatinine after 3 months FDC with DMPS

8) What is your location - city & country (so that we can learn where certain toxins are more prevalent).

New Caledonia, South Pacific – danger of exposure to Nickel and Chrome