

HAIR ELEMENTS



PATIENT: Number 343a
SEX: Male
AGE: 44
LOCATION: New York, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE		
			68 th	95 th	
Aluminum	3.6	< 12			
Antimony	0.035	< 0.080			
Arsenic	0.17	< 0.12			
Barium	1.0	< 1.5			
Beryllium	< 0.01	< 0.020			
Bismuth	0.042	< 2.0			
Cadmium	0.055	< 0.065			
Lead	0.44	< 1.5			
Mercury	0.13	< 0.80			
Platinum	< 0.003	< 0.005			
Thallium	0.001	< 0.002			
Thorium	< 0.001	< 0.002			
Uranium	0.005	< 0.060			
Nickel	0.16	< 0.40			
Silver	< 0.006	< 0.10			
Tin	0.16	< 0.30			
Titanium	0.41	< 0.70			
Total Toxic Representation					

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	295	375 - 1100					
Magnesium	40	40 - 140					
Sodium	170	60 - 400					
Potassium	260	28 - 160					
Copper	14	11 - 32					
Zinc	110	120 - 200					
Manganese	0.48	0.15 - 0.65					
Chromium	0.44	0.40 - 0.70					
Vanadium	0.028	0.018 - 0.065					
Molybdenum	0.045	0.040 - 0.080					
Boron	0.87	0.40 - 2.5					
Iodine	1.5	0.25 - 1.8					
Lithium	0.037	0.008 - 0.030					
Phosphorus	217	200 - 300					
Selenium	1.3	0.80 - 1.3					
Strontium	0.70	1.0 - 6.0					
Sulfur	45400	41000 - 47000					
Cobalt	0.012	0.006 - 0.035					
Iron	12	7.0 - 16					
Germanium	0.040	0.030 - 0.040					
Rubidium	0.25	0.030 - 0.25					
Zirconium	0.035	0.040 - 1.0					

SPECIMEN DATA

COMMENTS:

Date Collected: 1/25/2010
Date Received: 1/30/2010
Date Completed: 2/4/2010
Client Reference:
Methodology: ICP-MS

Sample Size: 0.197 g
Sample Type: Pubic
Hair Color:
Treatment:
Shampoo:

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	7.38	4 - 30
Ca/P	1.36	0.8 - 8
Na/K	0.654	0.5 - 10
Zn/Cu	7.86	4 - 20
Zn/Cd	> 999	> 800

HAIR ELEMENTS



PATIENT: Number 343b
SEX: Male
AGE: 44
LOCATION: New York, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE		
			68 th	95 th	
Aluminum	2.8	< 7.0			
Antimony	0.021	< 0.066			
Arsenic	0.061	< 0.080			
Barium	0.26	< 1.0			
Beryllium	< 0.01	< 0.020			
Bismuth	0.019	< 2.0			
Cadmium	0.017	< 0.065			
Lead	0.05	< 0.80			
Mercury	0.26	< 0.80			
Platinum	< 0.003	< 0.005			
Thallium	< 0.001	< 0.002			
Thorium	< 0.001	< 0.002			
Uranium	0.003	< 0.060			
Nickel	0.04	< 0.20			
Silver	0.01	< 0.08			
Tin	0.17	< 0.30			
Titanium	0.55	< 0.60			
Total Toxic Representation					

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	251	200 - 750					
Magnesium	25	25 - 75					
Sodium	27	20 - 180					
Potassium	6	9 - 80					
Copper	11	11 - 30					
Zinc	190	130 - 200					
Manganese	0.12	0.08 - 0.50					
Chromium	0.26	0.40 - 0.70					
Vanadium	0.011	0.018 - 0.065					
Molybdenum	0.023	0.025 - 0.060					
Boron	0.20	0.40 - 3.0					
Iodine	0.99	0.25 - 1.8					
Lithium	< 0.004	0.007 - 0.020					
Phosphorus	246	150 - 220					
Selenium	1.2	0.70 - 1.2					
Strontium	0.47	0.30 - 3.5					
Sulfur	54300	44000 - 50000					
Cobalt	0.007	0.004 - 0.020					
Iron	13	7.0 - 16					
Germanium	0.039	0.030 - 0.040					
Rubidium	0.007	0.011 - 0.12					
Zirconium	0.041	0.020 - 0.44					

SPECIMEN DATA

COMMENTS:

Date Collected: 3/15/2010
Date Received: 3/22/2010
Date Completed: 3/25/2010
Client Reference:
Methodology: ICP-MS

Sample Size: 0.203 g
Sample Type: Head
Hair Color: Brown
Treatment:
Shampoo: Various

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	10	4 - 30
Ca/P	1.02	0.8 - 8
Na/K	4.5	0.5 - 10
Zn/Cu	17.3	4 - 20
Zn/Cd	> 999	> 800

Health history for hair test 343

THIS INFORMATION IS FOR 2 HAIR TESTS (NOT JUST ONE)

1) What are your current symptoms and health history?

Major symptoms include insomnia, physical fatigue (can't walk long distances, can't run). Testing indicates adrenal fatigue; physician believes there is Hashimoto's (thyroid autoimmune disorder). Serotonin persistently low.

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

5 mercury amalgams removed this year. First one was added in mid-late teens. Wisdom teeth removed 26 years ago. No braces or root canals.

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

Diamond crown fillings and a couple older porcelain/ceramic fillings.

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

Unsure.

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

Travel shots: 2-3 sets in the last 10 years. No flu vaccines. Routine childhood vaccines in the 1960s/1970s.

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

Currently taking the following: Adrenal cortex 2-4 caps daily, CoQ10 200 mg, Ribose 4000 mg, adenosyl B12 3000 mcg, folic acid 200 mcg, DHEA 25 mg, digestive enzymes 4 caps (Absorbaid), melatonin 15-20 mg, C 3000 mg, magnesium (as orotate) 600 mg, taurine 1000 mg, strontium 340 mg, calcium 500 mg, zinc 100 mg, Vitamin K2, E 400 IU, PABA 400 mg, vanadium 2000 mcg, molybdenum 500 mcg, B complex 100, probiotics, raw thyroid 1 cap/day (complex). Much of this was started not long before the first hair test.

Herbs: valerian, ashwagandha, jatamansi, turmeric, milk thistle.
when 'on round', chelate with DMSA 25 mg per 4 hours.

7) Other information you feel may be relevant?

Challenge test (done before Cutler protocol information was available) suggested lead exposure.

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

New York City, USA