

HAIR ELEMENTS



PATIENT: Number 435

SEX: Male

AGE: 44

LOCATION: Kauai, Hawaii, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.2	< 7.0		
Antimony	0.011	< 0.066		
Arsenic	0.037	< 0.080		
Barium	0.58	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.12	< 2.0		
Cadmium	0.033	< 0.065		
Lead	0.29	< 0.80		
Mercury	0.22	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.033	< 0.060		
Nickel	0.26	< 0.20		
Silver	0.09	< 0.08		
Tin	0.15	< 0.30		
Titanium	0.50	< 0.60		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	2340	200- 750					
Magnesium	490	25- 75					
Sodium	700	20- 180					
Potassium	31	9- 80					
Copper	38	11- 30					
Zinc	200	130- 200					
Manganese	0.13	0.08- 0.50					
Chromium	0.50	0.40- 0.70					
Vanadium	0.33	0.018- 0.065					
Molybdenum	0.085	0.025- 0.060					
Boron	5.0	0.40- 3.0					
Iodine	1.1	0.25- 1.8					
Lithium	0.029	0.007- 0.020					
Phosphorus	200	150- 220					
Selenium	1.2	0.70- 1.2					
Strontium	9.3	0.30- 3.5					
Sulfur	46600	44000- 50000					
Cobalt	0.014	0.004- 0.020					
Iron	14	7.0- 16					
Germanium	0.062	0.030- 0.040					
Rubidium	0.012	0.011- 0.12					
Zirconium	0.045	0.020- 0.44					

SPECIMEN DATA

COMMENTS:

Date Collected: 11/29/2010 Sample Size: 0.197 g
 Date Received: 12/4/2010 Sample Type: Head
 Date Completed: 12/6/2010 Hair Color: Brown
 Client Reference: Treatment:
 Methodology: ICP-MS Shampoo: Jj

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	4.78	4- 30
Ca/P	11.7	0.8- 8
Na/K	22.6	0.5- 10
Zn/Cu	5.26	4- 20
Zn/Cd	> 999	> 800

Health history for hair test 435

1. **What are your current symptoms and health history?** Very active, otherwise healthy 44 year old male, avid swimmer, yoga, etc. Brain fogging, sense of smell off here and there, memory lapses, ungrounded feeling, ear ringing occasionally, muscle twitching in extremities off and on, dull pains in spleen/pancreas area, gas and intestinal disturbances.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** Wisdom teeth out at age 25. 11 amalgam fillings since pre-teen age, fully replaced with composite fillings 1 year ago. No root canals or other dentistry.
3. **What dental work do you currently have in place?** What part of the dental clean-up have you completed? fully replaced with composite fillings 1 year ago. No root canals or other dentistry.
4. **What dentistry did your mother have at any time before or during pregnancy?** Amalgam fillings in mother.
5. **What vaccinations have you had and when (including flu and especially travel shots)?** Normal US vaccinations as a child 35+ years ago. Hep B vaccine 10 years ago. Teatnus booster 10 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?** I was off of DMSA/ALA for 2 months prior to this hair test. Before that, I had taken twice monthly rounds of 50 mg DMSA, 50 mg ALA.
7. **What is your age, height and weight?** 44 year old, 6 foot 2 inch, 160 lbs.
8. **Other information you feel may be relevant?** This is my first test that I've posted. I have done 4 or 5 along the last 11 months, showing mercury in the hair significantly declining, but mineral transport continues to look way off. Also Silver and Tin continue to show elevations. I was a heavy sushi eater, and mercury also I am told is found in deep sea fish here in Hawaii which used to be my main diet 5-6 days a week.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Kauai, Hawaii, USA