

HAIR ELEMENTS



PATIENT: Number 483
SEX: Female
AGE: 35
LOCATION: Auckland, NZ

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	1.7	< 7.0		
Antimony	< 0.01	< 0.050		
Arsenic	0.071	< 0.060		
Barium	0.15	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.56	< 2.0		
Cadmium	0.016	< 0.050		
Lead	0.22	< 0.60		
Mercury	1.3	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	< 0.001	< 0.060		
Nickel	0.16	< 0.30		
Silver	0.01	< 0.15		
Tin	0.05	< 0.30		
Titanium	0.43	< 0.70		
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	348	300- 1200					
Magnesium	30	35- 120					
Sodium	11	20- 250					
Potassium	11	8- 75					
Copper	14	11- 37					
Zinc	200	140- 220					
Manganese	0.14	0.08- 0.60					
Chromium	0.48	0.40- 0.65					
Vanadium	0.032	0.018- 0.065					
Molybdenum	0.021	0.020- 0.050					
Boron	0.65	0.25- 1.5					
Iodine	0.21	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	205	150- 220					
Selenium	0.80	0.55- 1.1					
Strontium	0.42	0.50- 7.6					
Sulfur	48300	44000- 50000					
Cobalt	0.004	0.005- 0.040					
Iron	5.6	7.0- 16					
Germanium	0.028	0.030- 0.040					
Rubidium	0.010	0.007- 0.096					
Zirconium	0.016	0.020- 0.42					

SPECIMEN DATA

COMMENTS:
 Date Collected: 5/13/2011 Sample Size: 0.195 g
 Date Received: 5/23/2011 Sample Type: Head
 Date Completed: 5/26/2011 Hair Color: Brown
 Client Reference: 1275998 Treatment:
 Methodology: ICP-MS Shampoo:

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	11.6	4- 30
Ca/P	1.7	1- 12
Na/K	1	0.5- 10
Zn/Cu	14.3	4- 20
Zn/Cd	> 999	> 800

V010.08

Health history for hair test 483

1. **What are your current symptoms and health history?** Have food intolerances to gluten and dairy, with gastrointestinal symptoms. Seasonal hayfever. Adrenal exhaustion shown by cortisol saliva test done in April 2010 - all readings were lower than the norms. Fatigue, brain fog, poor short term memory, tendonitis in hands after lengthy computer use.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** Had braces during teenage years, all 4 wisdom teeth were extracted at 15 years as part of orthodontic treatment. Had school accident at 5yrs, two front teeth were 'cemented' back into place after nearly being knocked out, the teeth survived for a while but were capped at 23yrs (metal-lined caps).
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** In April-June 2010 had 4 amalgams removed using safe practice and replaced with ceramic fillings + front teeth caps changed for ceramic crowns. (2 others removed prior to this in 2008 without protection, replaced with ceramic fillings)
4. **What dentistry did your mother have at any time before or during pregnancy?** dont know
5. **What vaccinations have you had and when (including flu and especially travel shots)?** Travelled to South-East Asia in 2003 and had at least one travel vaccination for this trip. Dont know which one(s). Havent had flu shot or any others apart from childhood vaccination schedule.
6. **Supplements and medications taken at time of hair test, or for the 3-6 months before the sample was taken?** Most consistent supplements taken during this period were Adrenergize, B5, zinc, magnesium.
7. **What is your age, height and weight?** 35yrs, 164cm, 60kg
8. **Other information you feel may be relevant?** My eldest son was diagnosed with ASD, he would now qualify as PDD-NOS at 6.5yrs. He has completed 24 rounds of AC chelation since starting in May 2010. Porphyrin testing showed mild mercury toxicity. His younger 4.5yo brother is not ASD, and has completed 18 rounds of AC chelation since June 2010. I have not started chelation.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Auckland, NZ