

HAIR ELEMENTS



PATIENT: Number 406
SEX: Female
AGE: 44
LOCATION: Birmingham, UK

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	16	< 7.0		
Antimony	0.11	< 0.050		
Arsenic	0.054	< 0.060		
Barium	1.6	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.015	< 2.0		
Cadmium	0.036	< 0.050		
Lead	0.59	< 0.60		
Mercury	0.14	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.002	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.004	< 0.060		
Nickel	0.18	< 0.30		
Silver	0.04	< 0.15		
Tin	0.98	< 0.30		
Titanium	0.97	< 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	1120	300- 1200					
Magnesium	47	35- 120					
Sodium	8	20- 250					
Potassium	17	8- 75					
Copper	9.4	11- 37					
Zinc	130	140- 220					
Manganese	1.0	0.08- 0.60					
Chromium	0.43	0.40- 0.65					
Vanadium	0.063	0.018- 0.065					
Molybdenum	0.037	0.020- 0.050					
Boron	4.2	0.25- 1.5					
Iodine	0.51	0.25- 1.8					
Lithium	0.029	0.007- 0.020					
Phosphorus	205	150- 220					
Selenium	0.50	0.55- 1.1					
Strontium	1.5	0.50- 7.6					
Sulfur	45900	44000- 50000					
Cobalt	0.018	0.005- 0.040					
Iron	20	7.0- 16					
Germanium	0.033	0.030- 0.040					
Rubidium	0.043	0.007- 0.096					
Zirconium	0.053	0.020- 0.42					

SPECIMEN DATA

COMMENTS:

Date Collected: 4/8/2010	Sample Size: 0.202 g
Date Received: 8/6/2010	Sample Type: Head
Date Completed: 8/9/2010	Hair Color: Black
Client Reference: 1238635	Treatment: Dye, Perm
Methodology: ICP-MS	Shampoo: Ph Balanced

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	23.8	4- 30
Ca/P	5.46	1- 12
Na/K	0.471	0.5- 10
Zn/Cu	13.8	4- 20
Zn/Cd	> 999	> 800

Health history for hair test 406

1. **What are your current symptoms and health history?**
Fatigue, anxiety, insomnia, low blood anemia, emotional stress
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)**
4 amalgam fillings - not yet removed
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?**
4 amalgam fillings - not yet removed
4. **What dentistry did your mother have at any time before or during pregnancy?**
not known
5. **What vaccinations have you had and when (including flu and especially travel shots)?**
child hood vaccinations (40 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?**
iron supplements
7. **What is your age, height and weight?**
44 years old, 5ft 3ins
8. **Other information you feel may be relevant?**
mental health issues are common in my family
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent)**
Birmingham, UK