

HAIR ELEMENTS



PATIENT: Number 398
SEX: Male
AGE: 7
LOCATION: Kuala Lumpur, Malaysia

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	18	< 8.0		
Antimony	0.098	< 0.066		
Arsenic	0.13	< 0.080		
Barium	0.55	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.012	< 2.0		
Cadmium	0.061	< 0.070		
Lead	2.0	< 1.0		
Mercury	0.56	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	0.002	< 0.002		
Thorium	0.002	< 0.002		
Uranium	0.030	< 0.060		
Nickel	0.12	< 0.20		
Silver	0.04	< 0.14		
Tin	0.16	< 0.30		
Titanium	0.68	< 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	407	160- 500					
Magnesium	82	12- 50					
Sodium	73	20- 200					
Potassium	160	12- 140					
Copper	10	11- 32					
Zinc	140	110- 190					
Manganese	0.89	0.08- 0.50					
Chromium	0.40	0.40- 0.70					
Vanadium	0.051	0.025- 0.10					
Molybdenum	0.075	0.040- 0.090					
Boron	0.51	0.50- 3.5					
Iodine	0.44	0.25- 1.3					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	219	150- 220					
Selenium	0.94	0.70- 1.1					
Strontium	0.52	0.21- 2.1					
Sulfur	47000	44000- 51000					
Cobalt	0.011	0.004- 0.020					
Iron	11	7.0- 16					
Germanium	0.034	0.030- 0.040					
Rubidium	0.26	0.008- 0.080					
Zirconium	0.60	0.060- 0.70					

SPECIMEN DATA

COMMENTS:
 Date Collected: 1/8/2010 Sample Size: 0.202 g
 Date Received: 1/19/2010 Sample Type: Head
 Date Completed: 1/26/2010 Hair Color:
 Client Reference: Treatment:
 Methodology: ICP-MS Shampoo:

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	4.96	4- 30
Ca/P	1.86	0.8- 8
Na/K	0.456	0.5- 10
Zn/Cu	14	4- 20
Zn/Cd	> 999	> 800

V010.08

Health history for hair test 398

1. What are your current symptoms and health history? Autism Spectrum Disorder
2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) None
3. What dental work do you currently have in place? What part of the dental clean-up have you completed? None
4. What dentistry did your mother have at any time before or during pregnancy? Cannot remember
5. What vaccinations have you had and when (including flu and especially travel shots)? All childhood vaccination up until 6 years old including chickenbox and flu shot
6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? Zinc (20mg) - this is the batch by Kirkman that is recalled due to antimony contamination, magnesium (100 mg daily), probiotics, fish oil, enzyme.
7. What is your age, height and weight? 8, 125cm, 26kg
8. Other information you feel may be relevant? hyperactivity and have a lot of stimming behavior, preverbal, used single words. Speak in sentence but not consistent. E.g. he said "did you see that?" in the right condition but never hear it again after that.
9. What is your location – city & country (so that we can learn where certain toxins are more prevalent). Kuala Lumpur, Malaysia