

# HAIR ELEMENTS



**PATIENT: Number 484**  
**SEX: Male**  
**AGE: 6**  
**LOCATION: Auckland, NZ**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	19	< 8.0		
Antimony	0.48	< 0.066		
Arsenic	0.31	< 0.080		
Barium	0.22	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.061	< 2.0		
Cadmium	0.11	< 0.070		
Lead	2.1	< 1.0		
Mercury	1.3	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.004	< 0.060		
Nickel	0.29	< 0.20		
Silver	0.20	< 0.14		
Tin	0.49	< 0.30		
Titanium	0.79	< 0.70		
Total Toxic Representation				

## ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	132	160- 500					
Magnesium	7	12- 50					
Sodium	13	20- 200					
Potassium	10	12- 140					
Copper	26	11- 32					
Zinc	84	110- 190					
Manganese	0.48	0.08- 0.50					
Chromium	0.68	0.40- 0.70					
Vanadium	0.087	0.025- 0.10					
Molybdenum	0.12	0.040- 0.090					
Boron	1.5	0.50- 3.5					
Iodine	0.59	0.25- 1.3					
Lithium	0.004	0.007- 0.020					
Phosphorus	173	150- 220					
Selenium	0.82	0.70- 1.1					
Strontium	0.26	0.21- 2.1					
Sulfur	50500	44000- 51000					
Cobalt	0.013	0.004- 0.020					
Iron	14	7.0- 16					
Germanium	0.031	0.030- 0.040					
Rubidium	0.016	0.008- 0.080					
Zirconium	0.19	0.060- 0.70					

### SPECIMEN DATA

**COMMENTS:**  
 Date Collected: 5/12/2011      Sample Size: 0.203 g  
 Date Received: 5/23/2011      Sample Type: Head  
 Date Completed: 5/26/2011      Hair Color: Brown  
 Client Reference: 1276000      Treatment:  
 Methodology: ICP-MS      Shampoo:

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	18.9	4- 30
Ca/P	0.763	0.8- 8
Na/K	1.3	0.5- 10
Zn/Cu	3.23	4- 20
Zn/Cd	764	> 800

V010.08

## **Health history for Hair Test 484**

1. **What are your current symptoms and health history?** Mild ASD from birth, no real regression. Started speaking late at 2yrs with no prelinguistic behaviours but is now completely verbal (speaks English and French). Started biomed at 4yrs, GFCF, and started AC chelation in May 2010 even though he has only done 24 rounds. Now considered PDD-NOS, has learning difficulties, is in mainstream school but in a class a year below his age, has trouble with writing (poor fine motricity), is catching up to appropriate reading age though, imaginative play and socialisation still behind but making ground now through chelation.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** No amalgams
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** no dental work
4. **What dentistry did your mother have at any time before or during pregnancy?** 6 mercury amalgams and two crowned teeth with metal interiors (the crowns)
5. **What vaccinations have you had and when (including flu and especially travel shots)?** fully vaccinated according to French schedule until 3yrs, no flu shots or travel shots
6. **Supplements and medications taken at time of hair test, or for the 3-6 months before the sample was taken?** vit C, D3, K, A, Ca, Mg, B multi, CLO, Zn, multi mineral, GSE
7. **What is your age, height and weight?** 6.5yrs, 112cm, 18.5kg
8. **Other information you feel may be relevant?**
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Nantes, France until 9mths ago when moved to NZ