

# HAIR ELEMENTS



**PATIENT: Number 485**  
**SEX: Male**  
**AGE: 4**  
**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	12	< 8.0		
Antimony	0.21	< 0.066		
Arsenic	0.31	< 0.080		
Barium	0.14	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.024	< 2.0		
Cadmium	0.094	< 0.070		
Lead	1.7	< 1.0		
Mercury	1.1	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.003	< 0.060		
Nickel	0.14	< 0.20		
Silver	0.11	< 0.20		
Tin	0.26	< 0.30		
Titanium	0.73	< 1.0		
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>
Calcium	111	125- 370			
Magnesium	7	12- 30			
Sodium	97	20- 200			
Potassium	100	12- 200			
Copper	17	11- 18			
Zinc	68	100- 190			
Manganese	0.12	0.10- 0.50			
Chromium	0.62	0.43- 0.80			
Vanadium	0.087	0.030- 0.10			
Molybdenum	0.076	0.050- 0.13			
Boron	2.9	0.70- 5.0			
Iodine	0.36	0.25- 1.3			
Lithium	0.005	0.007- 0.020			
Phosphorus	212	150- 220			
Selenium	0.91	0.70- 1.1			
Strontium	0.15	0.16- 1.0			
Sulfur	51200	45500- 53000			
Cobalt	0.009	0.004- 0.020			
Iron	12	7.0- 16			
Germanium	0.030	0.030- 0.040			
Rubidium	0.21	0.016- 0.18			
Zirconium	0.078	0.040- 1.0			

SPECIMEN DATA				RATIOS		
<b>COMMENTS:</b>				<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected: 5/12/2011	Sample Size: 0.205 g			Ca/Mg	15.9	4- 30
Date Received: 5/23/2011	Sample Type: Head			Ca/P	0.524	0.8- 8
Date Completed: 5/26/2011	Hair Color: Brown			Na/K	0.97	0.5- 10
Client Reference: 1276001	Treatment:			Zn/Cu	4	4- 20
Methodology: ICP-MS	Shampoo:			Zn/Cd	723	> 800

V010.08

## Health history for Hair Test 485

Son 4.5yrs

1. **What are your current symptoms and health history?** Has mild ASD older brother. Mostly neurotypical (communication, intelligence, social interaction). Can be anxious in some situations. Had major ear infection at 1yr (mastoiditis) requiring hospitalisation and surgery to drain it. Reduced dairy intake helped reduce frequency of ear infections.
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 2yrs, 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, Ca, Mg, B multi, CLO, Zn, multi mineral
7. **What is your age, height and weight?** 4.5yrs, 100cm, 15kg
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