

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	32	< 8.0		
Antimony	0.058	< 0.066		
Arsenic	0.057	< 0.080		
Barium	0.85	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.018	< 2.0		
Cadmium	0.21	< 0.060		
Lead	3.0	< 1.0		
Mercury	3.1	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.013	< 0.060		
Nickel	0.16	< 0.20		
Silver	1.0	< 0.10		
Tin	0.50	< 0.30		
Titanium	0.88	< 0.60		
Total Toxic Representation				

## ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/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	447	200- 700					
Magnesium	26	18- 70					
Sodium	110	20- 200					
Potassium	81	9- 80					
Copper	48	11- 32					
Zinc	120	150- 230					
Manganese	0.17	0.08- 0.50					
Chromium	0.58	0.40- 0.70					
Vanadium	0.21	0.020- 0.075					
Molybdenum	0.11	0.030- 0.060					
Boron	1.6	0.34- 3.0					
Iodine	0.70	0.25- 1.3					
Lithium	0.016	0.007- 0.020					
Phosphorus	146	150- 220					
Selenium	0.59	0.70- 1.2					
Strontium	1.4	0.30- 3.2					
Sulfur	48200	44000- 50000					
Cobalt	0.012	0.004- 0.020					
Iron	10	7.0- 16					
Germanium	0.034	0.030- 0.040					
Rubidium	0.15	0.009- 0.090					
Zirconium	0.065	0.047- 0.70					

## SPECIMEN DATA

## RATIOS

COMMENTS: Results checked.

Date Collected: 4/8/2009

Sample Size: 0.196 g

Date Received: 4/17/2009

Sample Type: Head

Date Completed: 4/22/2009

Hair Color:

Client Reference:

Treatment:

Methodology: ICP-MS

Shampoo:

V010.08

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	17.2	4- 30
Ca/P	3.06	0.8- 8
Na/K	1.36	0.5- 10
Zn/Cu	2.5	4- 20
Zn/Cd	571	> 800



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TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	12	< 8.0		
Antimony	0.028	< 0.066		
Arsenic	0.030	< 0.080		
Barium	1.1	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.13	< 2.0		
Cadmium	0.069	< 0.060		
Lead	1.1	< 1.0		
Mercury	0.28	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.003	< 0.060		
Nickel	0.13	< 0.20		
Silver	0.48	< 0.10		
Tin	0.40	< 0.30		
Titanium	0.81	< 0.60		
Total Toxic Representation				

## ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/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	1560	200- 700					
Magnesium	61	18- 70					
Sodium	16	20- 200					
Potassium	17	9- 80					
Copper	36	11- 32					
Zinc	170	150- 230					
Manganese	0.24	0.08- 0.50					
Chromium	0.53	0.40- 0.70					
Vanadium	0.079	0.020- 0.075					
Molybdenum	0.030	0.030- 0.060					
Boron	3.0	0.34- 3.0					
Iodine	1.1	0.25- 1.3					
Lithium	0.008	0.007- 0.020					
Phosphorus	169	150- 220					
Selenium	0.78	0.70- 1.2					
Strontium	2.2	0.30- 3.2					
Sulfur	46900	44000- 50000					
Cobalt	0.010	0.004- 0.020					
Iron	17	7.0- 16					
Germanium	0.035	0.030- 0.040					
Rubidium	0.030	0.009- 0.090					
Zirconium	0.030	0.047- 0.70					

## SPECIMEN DATA

## RATIOS

## COMMENTS:

Date Collected: 4/30/2010

Sample Size: 0.201 g

Date Received: 5/17/2010

Sample Type: Head

Date Completed: 5/27/2010

Hair Color:

Client Reference:

Treatment:

Methodology: ICP-MS

Shampoo:

V010.08

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	25.6	4- 30
Ca/P	9.23	0.8- 8
Na/K	0.941	0.5- 10
Zn/Cu	4.72	4- 20
Zn/Cd	> 999	> 800



### **Health history for hair test 384**

This is a Hair Test for Dale, it is in pdf format as an attachment.

We purchase your product and would appreciate some feedback.

He is 15 years of age and is a male.

He is autistic, he is regressive ASD, which means he crashed after his MMR at 18 months and two months later he was autistic.

Until then was normally developing.

He is very fit, verbal and getting better.

No amalgams, had four silver crowns, they came out as on first teeth about three years ago.

No other dental work.

Mother had 16 amalgams at time of birth, from teenage years, and was 37 when had this child.

Immunisations, all up till 18 months including the flu shot at 6 months and shots for travelling as we travelled with child when he was six months.

Has been chelating with AC protocol since November 2009, 12.5mg ala and dmsa, plus the zinc mag supplement 4 times per day when on round.

Went up to 25mg, for one bottle but now back to 12.5mg.

Also takes omegas, iodine, zinc, multi vitamin, has epsom salt baths twice per week. We use oregano oil and candida clear when need to for yeast etc. Eats organic diet.

15 years born in 1994, 5 foot 6 inches in height, 55 kgs in weight.

Lives in New Zealand in a rural setting, organic home place on 2 acres.

Lived next to a strawberry farm for years, he ate huge amount of strawberries right in the paddocks whenever he could. They used all sorts of spray and fungicides etc.

This last summer is the first since he was born that the paddocks have not produced strawberries (now new homes on 5 acre sites).

Child does lots of running and training.

Questions for us are mainly around adrenals and what you see re support for his system.

He has in the past shown huge amounts of metals etc, this is a nice steady pull.

Question, when should we take another hair sample etc.