

# HAIR ELEMENTS



**PATIENT: Number 488**  
**SEX: Male**  
**AGE: 5**  
**LOCATION: Beijing, China**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	5.5	< 8.0		
Antimony	0.022	< 0.066		
Arsenic	0.16	< 0.080		
Barium	0.28	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.008	< 2.0		
Cadmium	0.022	< 0.070		
Lead	0.45	< 1.0		
Mercury	0.36	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	0.002	< 0.002		
Thorium	0.001	< 0.002		
Uranium	0.073	< 0.060		
Nickel	0.03	< 0.20		
Silver	0.01	< 0.20		
Tin	0.07	< 0.30		
Titanium	1.8	< 1.0		
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	338	125- 370					
Magnesium	26	12- 30					
Sodium	98	20- 200					
Potassium	300	12- 200					
Copper	7.5	11- 18					
Zinc	130	100- 190					
Manganese	0.18	0.10- 0.50					
Chromium	0.49	0.43- 0.80					
Vanadium	0.053	0.030- 0.10					
Molybdenum	0.055	0.050- 0.13					
Boron	2.4	0.70- 5.0					
Iodine	0.40	0.25- 1.3					
Lithium	0.020	0.007- 0.020					
Phosphorus	204	150- 220					
Selenium	1.6	0.70- 1.1					
Strontium	0.41	0.16- 1.0					
Sulfur	44300	45500- 53000					
Cobalt	0.005	0.004- 0.020					
Iron	7.9	7.0- 16					
Germanium	0.026	0.030- 0.040					
Rubidium	0.66	0.016- 0.18					
Zirconium	0.010	0.040- 1.0					

### SPECIMEN DATA

**COMMENTS:**

Date Collected:                      Sample Size:    **0.202 g**  
 Date Received:    **6/2/2011**              Sample Type:    **Head**  
 Date Completed:   **6/4/2011**             Hair Color:  
 Client Reference: **1276193**              Treatment:  
 Methodology:    **ICP-MS**                      Shampoo:

V010.08

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	<b>13</b>	4- 30
Ca/P	<b>1.66</b>	0.8- 8
Na/K	<b>0.327</b>	0.5- 10
Zn/Cu	<b>17.3</b>	4- 20
Zn/Cd	<b>&gt; 999</b>	> 800

## Health history for hair test 488

I live in Beijing in China, I just received my son's hair test result.

My son is five years old now, his weight is 42 pounds, 100cm height, he cannot build up normal relationship with his same age fellows, his attention is deficiency serious, OCD, he is crazy about these rotating toys. He can express his demand, but his oral language is very limited. He love lay on the bed, bounce on the bed.

He like do same thing again and again, he has learning problem, but his memory is very good. I have not dental but shot flu vaccinations before pregnancy. My son have shot vaccinations twenty times before four years old. My son has taken supplement for over 6 months.

His supplement is:

B complex:one capsulule one time three times each day. per service including vitamin b1 2mg, vitamin b2 3mg, vitamin b3 20mg, p5p 6mg, folinic acid 800mcg, mb-12 120mcg biotin 375mcg, pantothenic acid 20mg,

vitamin d 5000iu once each day  
vitamin k2 150 mg once each day  
vitamin c 500mg three times each day.  
vitamin e 150iu three times each day.

Ca:400mg, three times each day  
mg(oxide, carbonate) 125mg, three time each day  
Zinc(lactate) 15mg three times each day.  
Chromium(nicotinate) 100mcg twice each day.  
Molybdenum 100mcg twice each day  
iodine (potassium iodide) 100mcg three times each day.  
maganese(gluconate) 0.5 mg two times each day  
selenium(selenomethionine) 80mcg three times each day  
potassium 200mg three times each day  
boron 0.5mg three times each day

Culturelle probiotic 2 capsules twice each day.  
Klaire complete probiotics 2 capsules twice each day.

Milk thistle 250mg twice each day,  
Gingko 60mg twice each day.

Phosphatidylserine Complex 500mg twice each day.  
Lecithin 1200mg twice each day  
Fish oil 1 sofegel(EPA300, DHA500) three times each day.  
black currant oil 500mg once each day.  
Cq 10 100mg twice each day

Amino acid:

I-tyrosine 500mg twice each day.  
GABA 250mg twice each day.  
TMG 625mg once each day  
I-aurine 325mg twice each day  
L-Carnitine 250 mcg twice each day  
NAC 100mg twice each day.

He has ocd symptom, so i have given him goldenseal 14 drops 500mg twice each day recently .

IP-6&inositol 800mg three time each day

ACE 150mg three time each day

But i am not sure whether my son need these supplements. Hope to receive your guard . please interprete it, then tell me what i will do for my son. Thank you so much!