

# HAIR ELEMENTS



**PATIENT: Number 583**  
**SEX: Male**  
**AGE: 6**

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	5.2	< 8.0		
Antimony	0.018	< 0.066		
Arsenic	0.064	< 0.080		
Barium	0.08	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.012	< 2.0		
Cadmium	0.011	< 0.070		
Lead	0.32	< 1.0		
Mercury	0.04	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.033	< 0.060		
Nickel	0.04	< 0.20		
Silver	0.07	< 0.14		
Tin	0.07	< 0.30		
Titanium	0.28	< 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	197	160- 500					
Magnesium	15	12- 50					
Sodium	55	20- 200					
Potassium	24	12- 140					
Copper	23	11- 32					
Zinc	120	110- 190					
Manganese	0.07	0.08- 0.50					
Chromium	0.59	0.40- 0.70					
Vanadium	0.087	0.025- 0.10					
Molybdenum	0.038	0.040- 0.090					
Boron	1.1	0.50- 3.5					
Iodine	0.67	0.25- 1.3					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	150	150- 220					
Selenium	1.2	0.70- 1.1					
Strontium	0.14	0.21- 2.1					
Sulfur	45300	44000- 51000					
Cobalt	0.004	0.004- 0.020					
Iron	6.5	7.0- 16					
Germanium	0.024	0.030- 0.040					
Rubidium	0.033	0.008- 0.080					
Zirconium	0.045	0.060- 0.70					

SPECIMEN DATA			RATIOS		
<b>COMMENTS:</b>			<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected:	Sample Size:	0.205 g	Ca/Mg	13.1	4- 30
Date Received: 5/6/2011	Sample Type:	Head	Ca/P	1.31	0.8- 8
Date Completed: 5/8/2011	Hair Color:		Na/K	2.29	0.5- 10
Client Reference:	Treatment:		Zn/Cu	5.22	4- 20
Methodology: ICP-MS	Shampoo:		Zn/Cd	> 999	> 800
V010.08					



PATIENT: Number 583 follow-up  
 SEX: MALE  
 AGE: 7

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	5.4	< 8.0	
Antimony (Sb)	0.013	< 0.066	
Arsenic (As)	0.023	< 0.080	
Barium (Ba)	0.09	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.052	< 2.0	
Cadmium (Cd)	< 0.009	< 0.070	
Lead (Pb)	0.16	< 1.0	
Mercury (Hg)	< 0.03	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.039	< 0.060	
Nickel (Ni)	0.03	< 0.20	
Silver (Ag)	0.08	< 0.14	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.18	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	260	160- 500			
Magnesium (Mg)	26	12- 50			
Sodium (Na)	160	20- 200			
Potassium (K)	62	12- 140			
Copper (Cu)	17	11- 32			
Zinc (Zn)	160	110- 190			
Manganese (Mn)	0.05	0.08- 0.50			
Chromium (Cr)	0.38	0.40- 0.70			
Vanadium (V)	0.024	0.025- 0.10			
Molybdenum (Mo)	0.026	0.040- 0.090			
Boron (B)	0.94	0.50- 3.5			
Iodine (I)	1.2	0.25- 1.3			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	138	150- 220			
Selenium (Se)	0.48	0.70- 1.1			
Strontium (Sr)	0.26	0.21- 2.1			
Sulfur (S)	41400	44000- 51000			
Cobalt (Co)	< 0.002	0.004- 0.020			
Iron (Fe)	4.6	7.0- 16			
Germanium (Ge)	0.029	0.030- 0.040			
Rubidium (Rb)	0.073	0.008- 0.080			
Zirconium (Zr)	< 0.007	0.060- 0.70			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 4/3/2012	Sample Size: 0.2 g	Ca/Mg	10
Date Received: 4/9/2012	Sample Type: Head	Ca/P	1.88
Date Completed: 4/13/2012	Hair Color: Brown	Na/K	2.58
Methodology: ICP/MS	Treatment:	Zn/Cu	9.41
	Shampoo: Soap	Zn/Cd	> 999
		<b>RANGE</b>	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

### **Health history for hair test 583**

Momchil 7y old 27 kg ASD diagnosed with severe autism at age 3.6m, regression took place very aggressively 6 weeks lost all gained.

No dental fillings

Mother had few amalgam filling before and during pregnancy

All vaccinations done till age of 2 MMR and Hep B booster

Biomedical treatment from age of 4

Current supplement as per frequent low dose chelation:  
B-vitamins ,minerals,VA,VD,VC,supliments for yeast and adrenals.

When hair test was done he had about 10 rounds of chelation already.

Prior to regression he was very very sick at all time we live in Dublin Republic of Ireland

Momchil was diagnosed with abnormal EEG but till know no one can state the reason for it or would like to treat it with meds.

Thank you very much for your help.