

### Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	68 <sup>th</sup> PERCENTILE 95 <sup>th</sup>
Aluminum	(Al)	7.2	< 8.0	<div><div></div></div>
Antimony	(Sb)	0.072	< 0.066	<div><div></div></div>
Arsenic	(As)	0.11	< 0.080	<div><div></div></div>
Barium	(Ba)	0.51	< 0.50	<div><div></div></div>
Beryllium	(Be)	< 0.01	< 0.020	<div><div></div></div>
Bismuth	(Bi)	0.006	< 2.0	<div><div></div></div>
Cadmium	(Cd)	0.057	< 0.070	<div><div></div></div>
Lead	(Pb)	1.6	< 1.0	<div><div></div></div>
Mercury	(Hg)	0.25	< 0.40	<div><div></div></div>
Platinum	(Pt)	< 0.003	< 0.005	<div><div></div></div>
Thallium	(Tl)	0.002	< 0.002	<div><div></div></div>
Thorium	(Th)	0.001	< 0.002	<div><div></div></div>
Uranium	(U)	0.072	< 0.060	<div><div></div></div>
Nickel	(Ni)	0.07	< 0.20	<div><div></div></div>
Silver	(Ag)	0.15	< 0.20	<div><div></div></div>
Tin	(Sn)	0.65	< 0.30	<div><div></div></div>
Titanium	(Ti)	0.51	< 1.0	<div><div></div></div>
Total Toxic Representation				<div><div></div></div>

ESSENTIAL AND OTHER ELEMENTS			PERCENTILE					
		RESULT μg/g	REFERENCE INTERVAL	2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	(Ca)	356	125– 370					
Magnesium	(Mg)	20	12– 30					
Sodium	(Na)	290	20– 200					
Potassium	(K)	320	12– 200					
Copper	(Cu)	10	11– 18					
Zinc	(Zn)	130	100– 190					
Manganese	(Mn)	0.18	0.10– 0.50					
Chromium	(Cr)	0.51	0.43– 0.80					
Vanadium	(V)	0.067	0.030– 0.10					
Molybdenum	(Mo)	0.084	0.050– 0.13					
Boron	(B)	6.1	0.70– 5.0					
Iodine	(I)	0.59	0.25– 1.3					
Lithium	(Li)	0.69	0.007– 0.020					
Phosphorus	(P)	167	150– 220					
Selenium	(Se)	0.85	0.70– 1.1					
Strontium	(Sr)	1.8	0.16– 1.0					
Sulfur	(S)	49700	45500– 53000					
Cobalt	(Co)	0.006	0.004– 0.020					
Iron	(Fe)	9.9	7.0– 16					
Germanium	(Ge)	0.036	0.030– 0.040					
Rubidium	(Rb)	0.39	0.016– 0.18					
Zirconium	(Zr)	0.18	0.040– 1.0					

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>  Date Collected: 12/12/2017 Date Received: 12/27/2017 Date Completed: 12/29/2017 Methodology: ICP/MS	Sample Size: 0.202 g	ELEMENTS	RATIOS	RANGE
	Sample Type: Head Hair Color: Brown Treatment: Shampoo: Venus	Ca/Mg	17.8	4- 30
		Ca/P	2.13	0.8- 8
		Na/K	0.906	0.5- 10
		Zn/Cu	13	4- 20
		Zn/Cd	> 999	> 800

## Health history

1. **His current symptoms:** Hyperactivity, stubbornness, Speech delay, seeking.
2. **Dental history:** Nothing.
3. **Dental work:** Nothing.
4. **Mother dentistry:** the mother is a dentist, she does not work with amalgams, and she has done only dental care. However, the father has made amalgams but he has removed it.
5. **Vaccinations History:** He has done all vaccinations until 2 years.

### 6. Supplementation:

1	.Magnesium Malate : 600 MG/DAY
2	Calcium Hydroxyapatite :750 MG/DAY
3	Boron 3mg : 3 MG/DAY
4	Vitamin D3 400 iu : 4 PILLS/DAY
5	Dry Vitamin A 5000iu : 0.75 PILLS/DAY
6	ENDO-MET SBF FORMULA: 6 PILLS/DAY
7	Taurine 500mg : 3 PILLS/DAY
8	Zinc Picolinate : 22.5 MG/DAY
9	Manganese 10mg : 3 PILLS/DAY
10	Copper Sebacate : 4.5 MG/DAY
11	Chromium Picolinate 200 mcg : 1 PILL/DAY
12	Choline & Inositol 500mg : 2 PILLS/DAY
13	Lithiul Orotate 5 mg : 1 .5 MG/DAY
14	Ascorbyl Palmitate 500 mcg (203 mg of Vit C): 1.5 PILLS/DAY
15	Silymarin, Milk Thistle extract 150 mg: 1 PILL/DAY
16	Vitamin K2 ,500 mcg: 2PILLS/DAY

### 7. Chelation Rounds:

04 ROUNDS	3 MG OF D.M.S.A
02 ROUNDS	6 MG OF D.M.S.A AND 6.5 MG OF A.L.A
03 ROUNDS	6 MG OF D.M.S.A AND 10 MG OF A.L.A
03 ROUNDS	6 MG OF D.M.S.A AND 12.5 MG OF A.L.A

01 ROUNDS	9 MG OF D.M.S.A AND 12.5 MG OF A.L.A
<b>TOTAL ROUNDS UNTIL SAMPLE COLLECTED: 13 ROUNDS</b>	

8. **Location:** Sétif (Algeria).