



SEX: Male
AGE:

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.2	< 7.0	
Antimony (Sb)	0.027	< 0.066	
Arsenic (As)	0.17	< 0.080	
Barium (Ba)	1.2	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.002	< 2.0	
Cadmium (Cd)	0.016	< 0.065	
Lead (Pb)	1.2	< 0.80	
Mercury (Hg)	0.42	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.070	< 0.060	
Nickel (Ni)	0.06	< 0.20	
Silver (Ag)	0.07	< 0.08	
Tin (Sn)	0.07	< 0.30	
Titanium (Ti)	0.39	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th		
Calcium (Ca)	467	200- 750			
Magnesium (Mg)	50	25- 75			
Sodium (Na)	130	20- 180			
Potassium (K)	100	9- 80			
Copper (Cu)	8.8	11- 30			
Zinc (Zn)	160	130- 200			
Manganese (Mn)	0.34	0.08- 0.50			
Chromium (Cr)	0.55	0.40- 0.70			
Vanadium (V)	0.15	0.018- 0.065			
Molybdenum (Mo)	0.041	0.025- 0.060			
Boron (B)	2.0	0.40- 3.0			
Iodine (I)	1.3	0.25- 1.8			
Lithium (Li)	0.009	0.007- 0.020			
Phosphorus (P)	182	150- 220			
Selenium (Se)	0.58	0.70- 1.2			
Strontium (Sr)	2.9	0.30- 3.5			
Sulfur (S)	46900	44000- 50000			
Cobalt (Co)	0.005	0.004- 0.020			
Iron (Fe)	7.0	7.0- 16			
Germanium (Ge)	0.027	0.030- 0.040			
Rubidium (Rb)	0.096	0.011- 0.12			
Zirconium (Zr)	0.22	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 06/12/2014	Sample Size: 0.198 g	Ca/Mg	9.34
Date Received: 07/03/2014	Sample Type: Head	Ca/P	2.57
Date Completed: 07/05/2014	Hair Color: Brown	Na/K	1.3
Methodology: ICP/MS	Treatment:	Zn/Cu	18.2
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800



SEX: Male
AGE: 29

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	11	< 7.0	
Antimony (Sb)	0.30	< 0.066	
Arsenic (As)	0.095	< 0.080	
Barium (Ba)	6.2	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	0.093	< 0.065	
Lead (Pb)	3.7	< 0.80	
Mercury (Hg)	0.22	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.32	< 0.060	
Nickel (Ni)	0.18	< 0.20	
Silver (Ag)	0.21	< 0.08	
Tin (Sn)	0.35	< 0.30	
Titanium (Ti)	0.58	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS						
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE			
			2.5 th	16 th	50 th	84 th 97.5 th
Calcium (Ca)	1160	200- 750				
Magnesium (Mg)	120	25- 75				
Sodium (Na)	52	20- 180				
Potassium (K)	15	9- 80				
Copper (Cu)	15	11- 30				
Zinc (Zn)	190	130- 200				
Manganese (Mn)	4.7	0.08- 0.50				
Chromium (Cr)	1.2	0.40- 0.70				
Vanadium (V)	0.77	0.018- 0.065				
Molybdenum (Mo)	0.12	0.025- 0.060				
Boron (B)	0.71	0.40- 3.0				
Iodine (I)	1.1	0.25- 1.8				
Lithium (Li)	0.008	0.007- 0.020				
Phosphorus (P)	171	150- 220				
Selenium (Se)	1.2	0.70- 1.2				
Strontium (Sr)	8.6	0.30- 3.5				
Sulfur (S)	48100	44000- 50000				
Cobalt (Co)	0.016	0.004- 0.020				
Iron (Fe)	54	7.0- 16				
Germanium (Ge)	0.038	0.030- 0.040				
Rubidium (Rb)	0.026	0.011- 0.12				
Zirconium (Zr)	0.051	0.020- 0.44				

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 03/27/2015	Sample Size: 0.204 g	Ca/Mg	9.67	4- 30
Date Received: 04/16/2015	Sample Type: Head	Ca/P	6.78	0.8- 8
Date Completed: 04/18/2015	Hair Color: Brown	Na/K	3.47	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	12.7	4- 20
	Shampoo:	Zn/Cd	> 999	> 800



HAIR TEST: 988 follow-up March 2016
 SEX: Male
 AGE:

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	8.2	< 7.0	
Antimony (Sb)	0.094	< 0.066	
Arsenic (As)	0.12	< 0.080	
Barium (Ba)	3.8	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	0.064	< 0.065	
Lead (Pb)	6.3	< 0.80	
Mercury (Hg)	0.99	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.002	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.34	< 0.060	
Nickel (Ni)	0.12	< 0.20	
Silver (Ag)	0.19	< 0.08	
Tin (Sn)	0.44	< 0.30	
Titanium (Ti)	0.34	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE		
			2.5 th	16 th	50 th 84 th 97.5 th
Calcium (Ca)	849	200- 750			
Magnesium (Mg)	91	25- 75			
Sodium (Na)	62	20- 180			
Potassium (K)	42	9- 80			
Copper (Cu)	9.3	11- 30			
Zinc (Zn)	160	130- 200			
Manganese (Mn)	2.7	0.08- 0.50			
Chromium (Cr)	0.92	0.40- 0.70			
Vanadium (V)	0.60	0.018- 0.065			
Molybdenum (Mo)	0.046	0.025- 0.060			
Boron (B)	1.2	0.40- 3.0			
Iodine (I)	1.5	0.25- 1.8			
Lithium (Li)	0.012	0.007- 0.020			
Phosphorus (P)	163	150- 220			
Selenium (Se)	0.52	0.70- 1.2			
Strontium (Sr)	6.5	0.30- 3.5			
Sulfur (S)	43700	44000- 50000			
Cobalt (Co)	0.009	0.004- 0.020			
Iron (Fe)	23	7.0- 16			
Germanium (Ge)	0.15	0.030- 0.040			
Rubidium (Rb)	0.028	0.011- 0.12			
Zirconium (Zr)	0.009	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 02/12/2016	Sample Size: 0.196 g	Ca/Mg	9.33
Date Received: 03/17/2016	Sample Type: Head	Ca/P	5.21
Date Completed: 03/18/2016	Hair Color:	Na/K	1.48
Methodology: ICP/MS	Treatment:	Zn/Cu	17.2
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Health history for hair test 988

1. I have multiple sclerosis since 2013
2. I have 12 amalgams. The first one in year 1992 and last one in 2001 this year only one root canal
3. This year i change amalgam to composite and i make a root canal
4. She have/has 10 amalgams
5. I have all vaccinations and only one flu one
6. Vita c vita e b 100 magnesium and all cutler books supplements the basics that he say to take
7. What is your age, height and weight? 28 years 90 kg 1,90
8. Other information you feel may be relevant? No
9. What is your location – Rosario Argentina