



SEX: Male
DOB: 12/03/1979

AGE: 45

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum	(Al)	14	< 7.0	
Antimony	(Sb)	0.096	< 0.066	
Arsenic	(As)	0.047	< 0.080	
Barium	(Ba)	3.7	< 1.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.008	< 2.0	
Cadmium	(Cd)	0.039	< 0.065	
Lead	(Pb)	37	< 0.80	
Mercury	(Hg)	1.6	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	0.001	< 0.002	
Thorium	(Th)	0.002	< 0.002	
Uranium	(U)	0.014	< 0.060	
Nickel	(Ni)	0.16	< 0.20	
Silver	(Ag)	0.32	< 0.08	
Tin	(Sn)	0.22	< 0.30	
Titanium	(Ti)	0.64	< 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)	222	200- 750	
Magnesium	(Mg)	45	25- 75	
Sodium	(Na)	19	20- 180	
Potassium	(K)	18	9- 80	
Copper	(Cu)	36	11- 30	
Zinc	(Zn)	170	130- 200	
Manganese	(Mn)	1.7	0.08- 0.50	
Chromium	(Cr)	0.58	0.40- 0.70	
Vanadium	(V)	0.056	0.018- 0.065	
Molybdenum	(Mo)	0.048	0.025- 0.060	
Boron	(B)	0.72	0.40- 3.0	
Iodine	(I)	0.76	0.25- 1.8	
Lithium	(Li)	0.057	0.007- 0.020	
Phosphorus	(P)	167	150- 220	
Selenium	(Se)	0.68	0.70- 1.2	
Strontium	(Sr)	1.3	0.30- 3.5	
Sulfur	(S)	47200	44000- 50000	
Cobalt	(Co)	0.019	0.004- 0.020	
Iron	(Fe)	32	7.0- 16	
Germanium	(Ge)	0.032	0.030- 0.040	
Rubidium	(Rb)	0.030	0.011- 0.12	
Zirconium	(Zr)	0.040	0.020- 0.44	

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 10/28/2025		Ca/Mg	4.93	4- 30
Date Received: 11/10/2025		Ca/P	1.33	0.8- 8
Date Reported: 11/11/2025		Na/K	1.06	0.5- 10
Methodology: ICP/MS		Zn/Cu	4.72	4- 20
Sample Size: 0.195 g		Zn/Cd	> 999	> 800
Sample Type: Head				
Hair Color: Brown				
Treatment:				
Shampoo: Goat Soap				

Michael(father) Male, age 45, Petersburg AK, USA- wooden boat shipwright and timber framer. 150lbs, 5'10" tall(178 cm)

1- Health- currently battling gut disbiosis,C-Diff and more. Mild anger management issues, fatigue and low energy, poor sleep quality, light sensitivity. Lost most of my taste/smell. My worst post exposure symptoms(15 years ago) included erectile dysfunction, urinary incontinence.

2,3,4- dental history- I had one amalgum from around age 14 until age 42 when I had it removed by a conventional dentist with little to no safety precautions. That made me sick for a week. Currently all fillings are synthetic. Wisdom teeth removed around 18. Braces 16-18 no root canals. Generally good dental health. Mother had no mercury fillings.

5- vaccinations- fully vaccinated as a child in the 1980's. Frequently given tdap as an adult due to injuries. Learned more and ceased all use of vaccines for life at around age 38 while reseaching their safety and efficacy prior to birth of my 1st son.

6. supplements/medications- no medications. Sporadic supplements, not much.

7. age 45, 5'10" or 178 centimeters tall. 150 lbs.

8. My poison vector comes (mostly) from living and working on old wooden boats which are highly toxic with lead. lead putties, lead paints, lead ingots, lead patches... at one point I wooded(removed all paint) my sailboat using a blowtorch and scraper, a major mistake.

9. Petersburg, Alaska, USA