

The Great Plains Laboratory, Inc.

LAB#: H200422-2236-1

PATIENT: Ronald Lavine

SEX: Male

DOB: 10/18/1954

AGE: 65

CLIENT#: 24510

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum	(Al)	3.2	< 7.0	
Antimony	(Sb)	0.025	< 0.066	
Arsenic	(As)	0.063	< 0.080	
Barium	(Ba)	0.44	< 1.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.002	< 2.0	
Cadmium	(Cd)	0.041	< 0.065	
Lead	(Pb)	0.13	< 0.80	
Mercury	(Hg)	1.7	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	0.001	< 0.002	
Uranium	(U)	0.002	< 0.060	
Nickel	(Ni)	0.04	< 0.20	
Silver	(Ag)	0.07	< 0.08	
Tin	(Sn)	0.21	< 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)	352	200- 750	
Magnesium	(Mg)	30	25- 75	
Sodium	(Na)	40	20- 180	
Potassium	(K)	18	9- 80	
Copper	(Cu)	20	11- 30	
Zinc	(Zn)	220	130- 200	
Manganese	(Mn)	0.13	0.08- 0.50	
Chromium	(Cr)	0.42	0.40- 0.70	
Vanadium	(V)	0.028	0.018- 0.065	
Molybdenum	(Mo)	0.024	0.025- 0.060	
Boron	(B)	0.63	0.40- 3.0	
Iodine	(I)	1.0	0.25- 1.8	
Lithium	(Li)	< 0.004	0.007- 0.020	
Phosphorus	(P)	161	150- 220	
Selenium	(Se)	0.72	0.70- 1.2	
Strontium	(Sr)	0.89	0.30- 3.5	
Sulfur	(S)	48600	44000- 50000	
Cobalt	(Co)	0.014	0.004- 0.020	
Iron	(Fe)	8.1	7.0- 16	
Germanium	(Ge)	0.038	0.030- 0.040	
Rubidium	(Rb)	0.018	0.011- 0.12	
Zirconium	(Zr)	0.024	0.020- 0.44	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 04/12/2020	Sample Size: 0.199 g	Ca/Mg	11.7
Date Received: 04/22/2020	Sample Type: Head	Ca/P	2.19
Date Reported: 04/24/2020	Hair Color:	Na/K	2.22
Methodology: ICP/MS	Treatment:	Zn/Cu	11
	Shampoo:	Zn/Cd	> 999
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Analyzed by ©DOCTOR'S DATA, INC. • ADDRESS: 3756 Illinois Avenue, St. Charles, IL 60174-2420 • LAB DIR: Erlo Roth, MD • CLIA ID NO: 14D0646470

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