

Patient:

Report Date: February 2, 2019

Login Date: February 2, 2019

TOXIC AND NON-NUTRITIONAL

	Result (ug/g)	High Limit	--- Acceptable---	----- Above Acceptable Limits -----	
Mercury (Hg)	4.89	1.00			Hg
Lead (Pb)	0.63	1.00			Pb
Cadmium (Cd)	0.01	0.10			Cd
Arsenic (As)	0.01	1.00			As
Aluminium (Al)	7.95	10.00			Al
Antimony (Sb)	0.04	1.00			Sb
Barium (Ba)	1.22	1.50			Ba
Beryllium (Be)	0.002	0.050			Be

Weighted Total Toxicity Assessment (93) |||||

NUTRITIONAL ELEMENTS

Mainly Structural	Result (ug/g)	Expected (ug/g)	Below Normal	Normal	Above Normal	
Calcium (Ca)	1499	200-630				Ca
Magnesium (Mg)	72	18-78				Mg
Sulphur (S)	41492	35000-50000				S
Silicon (Si)	33	15-80				Si
Boron (B)	3.04	0.5-3.5				B
Phosphorus (P)	178.9	125-250				P
Strontium (Sr)	4.2	0.8-6.0				Sr
Mainly Electrolyte						
Potassium (K)	54.4	10-80				K
Sodium (Na)	116.2	25-180				Na
Mainly CoFactor						
Zinc (Zn)	153.7	140-200				Zn
Copper (Cu)	110.9	10-35				Cu
Iron (Fe)	10.8	6-15				Fe
Selenium (Se)	0.61	0.8-2.0				Se
Chromium (Cr)	0.60	0.2-1.2				Cr
Manganese (Mn)	0.200	0.2-0.8				Mn
Nickel (Ni)	0.189	0.15-1.0				Ni
Vanadium (V)	0.012	0.01-0.15				V
Molybdenum (Mo)	0.034	0.03-0.15				Mo
Cobalt (Co)	0.011	0.02-0.20				Co

SIGNIFICANT RATIOS

	Result	Expected		Result	Expected
Ca:Mg	20.7	4-20	Ca:Pb	2391	>84
Ca:P	8.4	1.5-7.0	Fe:Pb	17.2	>4.4
Ca:K	27.6	9.4-135	Fe:Hg	2.2	>22
Ca:Na	12.9	3.8-44	Se:Hg	0.13	>1.0
Ca:Fe	139.0	21-109	Zn:Hg	31	>200
Na:K	2.1	2.0-4	Zn:Cd	10979	>800
Na:Mg	1.6	0.2-2.2			
Zn:Cu	1.4	4-17			
Fe:Cu	0.1	0.20-1.5			

OTHER ELEMENTS

The significance of these elements in hair has not been established. Higher than normal values may indicate exogenous sources.

Potentially Toxic

	Result	Expected
Bismuth (Bi)	0.150	<1.0
Palladium (Pd)	0.080	<1.0
Platinum (Pt)	0.003	<1.0
Silver (Ag)	0.164	<1.0
Thallium (Tl)	0.000	<1.0
Uranium (U)	0.023	<1.5
Tungsten (W)	0.005	<2.0

Generally Non-Toxic

	Result	Expected
Germanium (Ge)	0.037	<DL - 0.8
Lithium (Li)	0.039	<DL - 0.1
Tin (Sn)	0.145	<DL - 2.0
Zirconium (Zr)	0.963	<DL - 0.4
Lanthanum (La)	0.003	<DL - 0.05
Cerium (Ce)	0.005	<DL - 0.05

Normal Type: (2) Male >14

Analysis Date: February 2, 2019

<dl: Below Method Detection Limit NA: No Analytical Data (Suspected Contamination) For use by practitioners only. Not for diagnosis.