

Elemental Analysis Hair

63 Zillicoa Street Asheville, NC 28801 © Genova Diagnostics

GENOVA

Order Number: H7050805

Completed: September 10, 2014 Received: September 05, 2014

Collected: August 25, 2014

DOB: May 31, 1990

Sex: M

MRN: 1232356178

Element Reference Range			Reference Rang in µg/g	
Aluminum	1.3		<= 17.3	
Antimony	0.008		<= 0.016	
Arsenic	0.05		<= 0.080	
Barium	0.11		<= 1,70	
Bismuth	⟨dl		<= 0.178	
Cadmium	0.004		<= 0.022	
Gadolinium	⟨dl		<= 0.0005	
Lead	0.155		<= 0.700	
Mercury		2.82	<= 1.32	
Nickel	0.04		<= 0.55	
Rhodium	⟨dl		<= 0.0005	
Rubidium	⟨d		<= 0.040	
Thallium		0.0005	<= 0.0004	
Tin	0.016		<= 0,149	
Uranium	0.0005		<= 0.0057	

		Ratios	
	Inside Range	Outside Range	Reference Range
Ca/Mg	11		5-29
Ca/P	1		1-9

	Nutrient Elements	8
Element	Reference Range	Reference Range in µg/g
Calcium	105	192-1,588
Chromium	0.05	0.01-1.58
Cobalt	0.008	0.001-0.129
Copper	9	8-136
Iron	6.4	5.2-24.4
Magnesium	10	11-122
Manganese	0.08	0.04-1.93
Molybdenum	0.03	0.01-1.24
Phosphorous	119	104-206
Selenium	0.62	0.58-1.13
Sodium	2	14-426
Strontium	0.29	0.01-4.40
Sulfur	44,804	41,781-60,894
Vanadium (a	0.003-0.108
Zinc	160	119-245
	Reference Range	
Lithium ((d)	<= 0.302
Potassium (<dl)< td=""><td><= 174</td></dl)<>	<= 174

) zinc lozanega

Bethel, ME 04217 U.S.A.

Toxic & Essential Elements; Hair

	-	TOXIC N	ETALS		
		RESULT μg/g	REFERENCE INTERVAL	68 th 95 th	
Aluminum	(AI)	2.6	< 7.0	- A1298C CXp	
Antimony	(Sb)	0.040	< 0.066		
Arsenic	(As)	0.027	< 0.080	- 0 00 0- ++</td <td>Δ</td>	Δ
Barium	(Ba)	0.15	< 1.0	上の一つころして	14
Beryllium	(Be)	< 0.01	< 0.020	All loos ton	-
Bismuth	(Bi)	< 0.002	< 2.0	. 50	6111
Cadmium	(Cd)	< 0.009	< 0.065		
Lead	(Pb)	0.18	< 0.80		
Mercury	(Hg)	0.31	< 0.80	- Matel Away	
Platinum	(Pt)	< 0.003	< 0.005	<u> </u>	
Thallium	(TI)	< 0.001	< 0.002	9	
Thorium	(Th)	< 0.001	< 0.002	MitoForce	
Uranium	(U)	0.004	< 0.060	- \	
Nickel	(Ni)	0.06	< 0.20	- K-TP	
Silver	(Ag)	0.01	< 0.08	- \	
Tin	(Sn)	0.03	< 0.30	· Ribatianin J	P
Titanium	(Ti)	0.41	< 0.60		4
Total Toxic Representation	1	1 111			
Total Toxio Representation		ECCENTIAL AND C	THER ELEMENTS		
		ESSENTIAL AND O	REFERENCE	PERCENTILE	
+ MITOFOR	®	RESULT μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97	.5 th
Calcium	(Ca)	137	200- 750		
Magnesium TOO COW	(Mg)	14	25- 75		
	(Na)	2	20- 180	- Aerobia	0
Sodium Too Low		< 3	9- 80	TROTA SO	:(()
	(K)	11	11- 30	+100A SO +ATP+	
Copper	(Cu)	210	130- 200	- Rik	120
Zinc	(Zn)	0.15		• 500	05
Manganese	(Mn)	0.15	0.08- 0.50 0.40- 0.70		
Chromium	(Cr)	0.020	0.018- 0.065	- TOKES	
Vanadium	(V)				
Molybdenum	(Mo)	0.087	0.025- 0.060	Daabenal —	H+
Boron	(B)	0.28	0.40- 3.0	20~3680	
lodine	(I)	0.34	0.25- 1.8	tithion	000
Lithium TOO COW	(Li)	< 0.004	0.007- 0.020	- + Allino	26-
Phosphorus	(P)	165	150- 220	- , 10,100	
Selenium	(Se)	1.1	0.70- 1.2		
Strontium to a Low	(Sr)	0.18	0.30- 3.5	- Landose	
Sulfur	(S)	48300	44000- 50000		
Cobalt	(Co)	0.015	0.004- 0.020		
Iron	(Fe)	14	7.0- 16		
Germanium	(Ge)	0.040	0.030- 0.040	0	
Rubidium TOO LOW	(Rb)	< 0.003	0.011- 0.12	POTASS	CON
Zirconium	(Zr)	0.013	0.020- 0.44		
	SPECIME	N DATA	THE REAL PROPERTY.	RATIOS	
COMMENTS: Work 6			while	ELEMENTS RATIOS RANG	GE
0001	1	1 1 1	1	Ca/Mg 9.79 4-	30
Date Collected: 09/11/2015	prod	Sample Size: 0,201	\$ mu188550	Ca/P 0.83 0.8-	. 8
Date Received: 09/18/2015	1	Sample Type: Head	3	Na/K 0.667 0.5-	10
Date Completed: 09/21/2015	0	Hair Color:	JAS HILL	11071	20
Methodology: ICP/MS		Treatment:	11 12 11=	, Zill od	800
Meniodology. TCP/MS		modulion.	IN ICO.		2000 M

©DOCTOR'S DATA, INC. • ADDRESS: 3755 Illinois Avenue, St. Charles, IL 60174-2420 • CLIA ID NO: 14D0646470 LAB DIR From Publication. HE-29626

0001544



SEX: Male AGE: 27

men heelth

279 Walkers Mills Rd Bethel, ME 04217 U.S.A. DEFER TO YOUR

Toxic & Essential Elements; Hair

		TOXIC	METALS			
I would mn Z CSA		RESULT µg/g	REFERENCE INTERVAL	68 th PERCENTILE 95 th		
Aluminum & GPPP	(AI)	4.7	< 7.0	MTHE LIVER CO		
Antimony 'next	(Sb)	0.030	< 0.066	+ ATP + Matal Au		
Arsenic	(As)	0.078	< 0.080			
Barium	(Ba)	0.18	< 1.0	- Allin One + Be color		
Beryllium	(Be)	< 0.01	< 0.020	+ BIO Notrus minard		
Bismuth	(Bi)	< 0.002	< 2.0	tPS/PEPC +DHA		
Cadmium	(Cd)	< 0.009	< 0.065			
Lead Also No ZWE	to(Pb) took	5.1	< 0.80	ATCE (
Mercury GSH + NADH	(Hg)	1.0	< 0.80	80xp+		
Platinum	(Pt)	< 0.003	< 0.005	Matal Away		
Thallium	(TI)	< 0.001	< 0.002	+ Extre asbe as new		
Thorium	(Th)	0.001	< 0.002			
Uranium	(U)	0.001	< 0.060			
Nickel	(Ni)	0.05	< 0.20	- ATP + RIBOSPH		
Silver	(Ag)	0.01	< 0.08	1 + MILOTORER		
Tin	(Sn)	0.12	< 0.30	+ coa 10 spray		
Titanium	(Ti)	0.43	< 0.60			
Total Toxic Representation						



AGE: 27

DELEIC 10

2/3 Walkers Willis Ru

Your Bethel, ME 04217 U.S.A.

		ESSENTIAL AND C	OTHER ELEMENTS	
+ ATP + RIBO S + MILDEORRE +	ches O D of	RESULT	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium	(Ca)	103	200- 750	CALMERDIA
Magnesium	(Mg)	14	25- 75	+ CKARZ MZGRIZIU
Sodium I would	(Na) W	2	20- 180	+ 80+25512/2
Potassium) & CSA ?	(K)	3	9- 80	+ Acobic 07
Copper GPPP 25	(Cu)	11	11- 30	CallFood
Zinc imbalances in	(Zn)	190	130- 200	S Zinc
Manganese potassium	(Mn)	0.09	0.08- 0.50	
Chromium con Indicate	a(Cr)	0.56	0.40- 0.70	
Vanadium H. pylon ?	(V)	0.019	0.018- 0.065	Forcep
Molybdenum	(Mo)	0.11	0.025- 0.060	
Boron microbas	(B)	1.5	0.40- 3.0	+)+
lodine	(I)	0.49	0.25- 1.8	- Morayoganu
(Lithium) Work with	(Li)	< 0.004	0.007- 0.020	Black
Phosphorus your dock	er(P) on	168	150- 220	Bes
Selenium 100000	(Se)	0.90	0.70- 1.2	
Strontium Orstales +	(Sr)	0.09	0.30- 3.5	ORO SITM
Sulfur ATP +	(S)	49100	44000- 50000	Bleek Boom + Norwalan
Cobalt Allin One+	(Co)	0.015	0.004- 0.020	
Iron Be Com +	(Fe)	8.0	7.0- 16	
Germanium BroNatorus	(Ge)	0.032	0.030- 0.040	Intest Multiglion
Rubidium minass	(Rb)	0.004	0.011- 0.12	Pote Esium
Zirconium	(Zr)	0.065	0.020- 0.44	

you can then say long route mathy by on



SEX: Male AGE: 27

279 Walkers Mills Rd Bethel, ME 04217 U.S.A.

Toxic & Essential Elements; Hair

		TOXIC	METALS	
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 95 th
Aluminum	(AI)	4.7	< 7.0	
Antimony	(Sb)	0.030	< 0.066	
Arsenic	(As)	0.078	< 0.080	
Barium	(Ba)	0.18	< 1.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	< 0.002	< 2.0	
Cadmium	(Cd)	< 0.009	< 0.065	
Lead	(Pb)	5.1	< 0.80	
Mercury	(Hg)	1.0	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(TI)	< 0.001	< 0.002	
Thorium	(Th)	0.001	< 0.002	
Uranium	(U)	0.001	< 0.060	
Nickel	(Ni)	0.05	< 0.20	
Silver	(Ag)	0.01	< 0.08	
Tin	(Sn)	0.12	< 0.30	
Titanium	(Ti)	0.43	< 0.60	
Total Toxic Represent	tation		-200	and the second s

		ESSENTIAL AND	OTHER ELEMENTS	
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium	(Ca)	103	200- 750	
Magnesium	(Mg)	14	25- 75	
Sodium	(Na)	2	20- 180	
Potassium	(K)	3	9- 80	
Copper	(Cu)	11	11- 30	
Zinc	(Zn)	190	130- 200	
Manganese	(Mn)	0.09	0.08- 0.50	
Chromium	(Cr)	0.56	0.40- 0.70	
Vanadium	(V)	0.019	0.018- 0.065	
Molybdenum	(Mo)	0.11	0.025- 0.060	
Boron	(B)	1.5	0.40- 3.0	
lodine	(1)	0.49	0.25- 1.8	
Lithium	(Li)	< 0.004	0.007- 0.020	
Phosphorus	(P)	168	150- 220	
Selenium	(Se)	0.90	0.70- 1.2	
Strontium	(Sr)	0.09	0.30- 3.5	
Sulfur	(S)	49100	44000- 50000	
Cobalt	(Co)	0.015	0.004- 0.020	
Iron	(Fe)	8.0	7.0- 16	
Germanium	(Ge)	0.032	0.030- 0.040	
Rubidium	(Rb)	0.004	0.011- 0.12	
Zirconium	(Zr)	0.065	0.020- 0.44	

SF	RATIOS			
COMMENTS:		ELEMENTS	ELEMENTS RATIOS	
		Ca/Mg	7.36	4- 30
Date Collected: 09/04/2017	Sample Size: 0.203 g	Ca/P	0.613	0.8- 8
Date Received: 09/25/2017	Sample Type: Head	Na/K	0.667	0.5- 10
Date Completed: 09/27/2017	Hair Color: Red	Zn/Cu	17.3	4- 20
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800
	Shampoo:			

Health history for follow-up hair test 1010B

Ongoing Symptoms include fatigue, headache, brainfog, incomplete stools, drunken vision, sensitive hearing, rashes (possible dermatitis on hands), occasional speech difficulty (trying to say two words at once or just mixed up) and uncoordinated. Exercise tolerance increased with adrenal support, and muscle and joint pains are now only mild. Mood is usually stable, have a lot of bouts of self doubt but also indifference.

Current supplements taken on and before the testing:

- Vitamin C 4mg daily or 12 if chelating (will increase this to 12mg daily everyday)
- Vitamin E 1200iu
- magnesium citrate 1000mg over three doses
- Calcium 1000mg over 3 doses
- Molybdenum 1200mcg over four doses
- Zinc 33mg over three doses
- Silymarin (600mg Milk thistle, Dandelion Root 200mg, Artichoke 100mg) over 2 doses
- · Vitamin D 5000iu
- Selenium 300mcg over 3 doses
- Adrenal cortex extract 300mg with breakfast
- Pregnenolone 200mg with breakfast

Been going through what i suspect to be the "stall phase " for 2 or 3 months so i have been forced to take lower chelater doses (previously i was cruising with ALA at 25mg every 2 hours).

Currently on ALA 1mg every 2hours.

DMPS/DMSA 1-2mg every 6 or 2 hours.

I will perhaps half the ALA dose as i still get effects from these doses.

Mostly wish to improve energy and recovery but my biggest thing to improve would be mind clarity and the ability to think and act without brain fog and indecisive sluggish thoughts.

I currently live in Geelong, relatively big town in Australia.

Health history for hair test 1010

- 1. Symptoms include fatigue, headache, brainfog, migrating muscle and join pain, IBS, drunken vision, sensitive hearing, rashes and scratch like marks over body, occasional speech difficulty and uncoordinated. Symptoms ongoing since august 2011. Have had rashes and uncomfortable burning face at night since teenager.
- 2. Had one big filling when a kid in baby teeth, not sure if amalgam or porcelain.
- 3. Undergoing no dental work.
- 4. Mother had 4+ large Amalgams at the time of my birth.
- 5. Never had vaccinations
- 6. Supplements taken at the time of testing were: Milk Thistle, Vitamin C, Vitamin D, Magnesium, Eleuthero, L-Carnitine, CoQ10 and fish oil (all at recommended doses).
- 7. I Live in Australia Anglesea, roughly 1km away from the Anglesea Alcoa power station. The power station is very outdated and the dust from the smoke stack (which settles in the town) has been tested and shown the following elements present: Antimony, Beryllium, Cadmium, Lead, Mercury, Nickel, Sliver, Thallium, Thorium, Tungsten and Uranium.
- I have been a lawn mower/gardener for 5 years and was constantly exposed to large amounts of dust in the air.