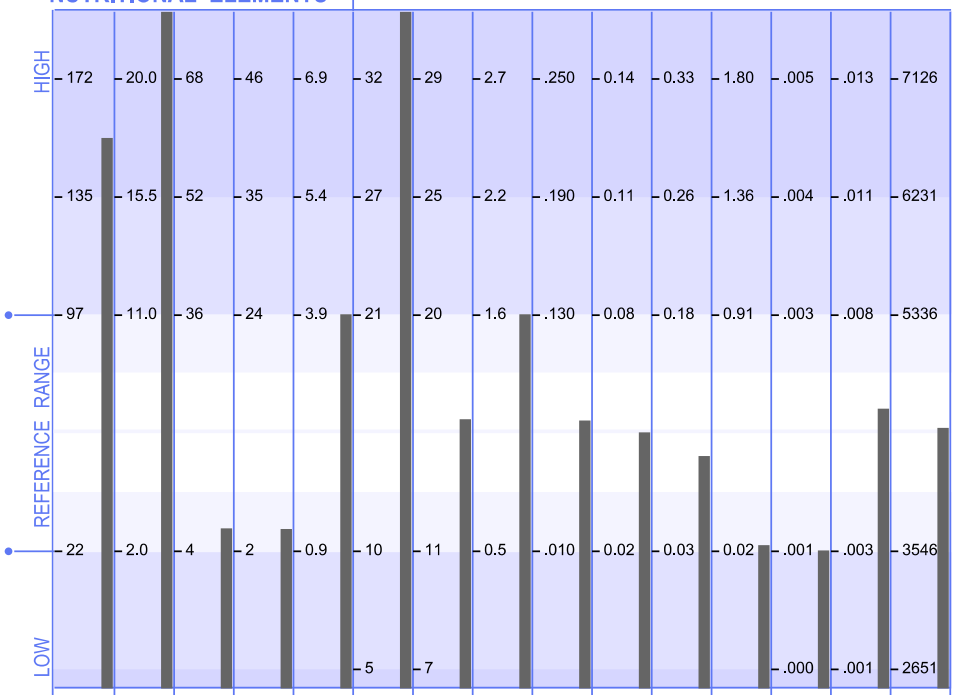
TRACE ELEMENTS
4501 Sunbelt Drive · Addison, Tx · 75001 · U.S.A.

LABORATORY NO.:	1367941		
PROFILE NO.:	1	SAMPLE TYPE:	SCALP
PATIENT:		AGE: 33	SEX: F
REQUESTED E		ACCOUNT NO.:	DATE: 5/8/2017

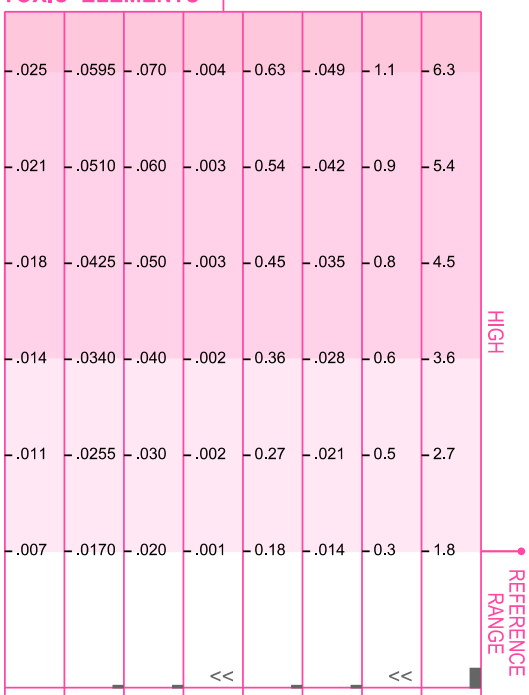
METABOLIC TYPE: SLOW 1

NUTRITIONAL ELEMENTS



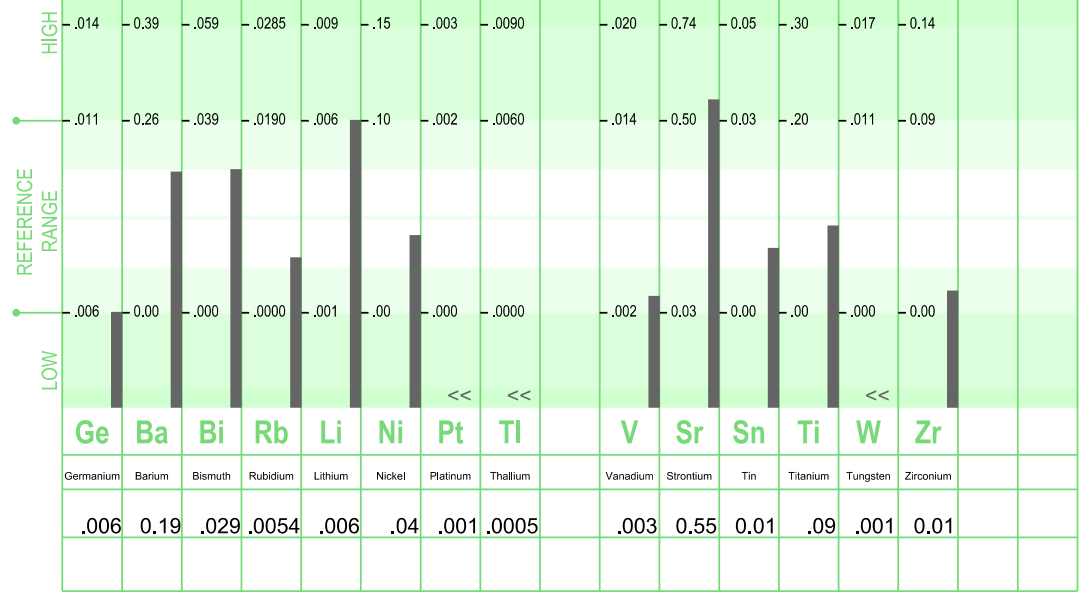
Ca	Mg	Na	K	Cu	Zn	P	Fe	Mn	Cr	Se	B	Co	Mo	S
Calcium	Magnesium	Sodium	Potassium	Copper	Zinc	Phosphorus	Iron	Manganese	Chromium	Selenium	Boron	Cobalt	Molybdenum	Sulfur
153	26.1	7	4	3.9	36	16	1.6	.076	0.05	0.09	0.04	.001	.006	4475

TOXIC ELEMENTS



Sb	U	As	Be	Hg	Cd	Pb	Al
Antimony	Uranium	Arsenic	Beryllium	Mercury	Cadmium	Lead	Aluminum
N/A	.0006	.005	.001	0.02	.002	0.1	0.7

ADDITIONAL ELEMENTS



Ge	Ba	Bi	Rb	Li	Ni	Pt	Tl	V	Sr	Sn	Ti	W	Zr
Germanium	Barium	Bismuth	Rubidium	Lithium	Nickel	Platinum	Thallium	Vanadium	Strontium	Tin	Titanium	Tungsten	Zirconium
.006	0.19	.029	.0054	.006	.04	.001	.0005	.003	0.55	0.01	.09	.001	0.01

"<<": Below Calibration Limit; Value Given Is Calibration Limit

"QNS": Sample Size Was Inadequate For Analysis.

"N/A": Currently Not Available

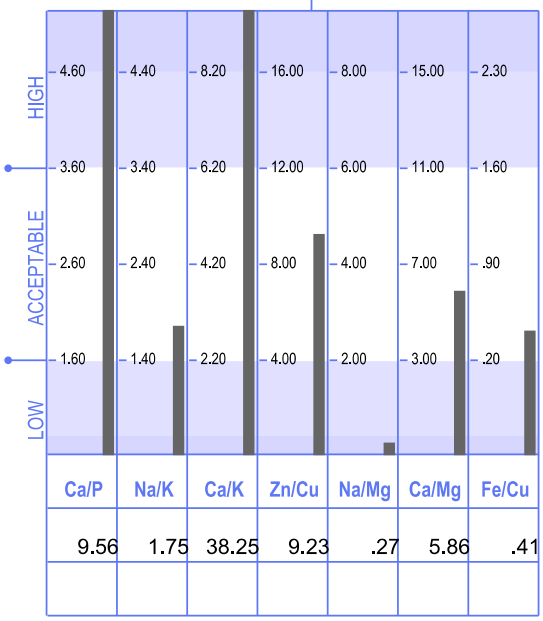
Ideal Levels And Interpretation Have Been Based On Hair Samples Obtained From The Mid-Parietal To The Occipital Region Of The Scalp.

Laboratory Analysis Provided by Trace Elements, Inc. an H. H. S. Licensed Clinical Laboratory. No. 45 D0481787

5/8/2017
CURRENT TEST RESULTS

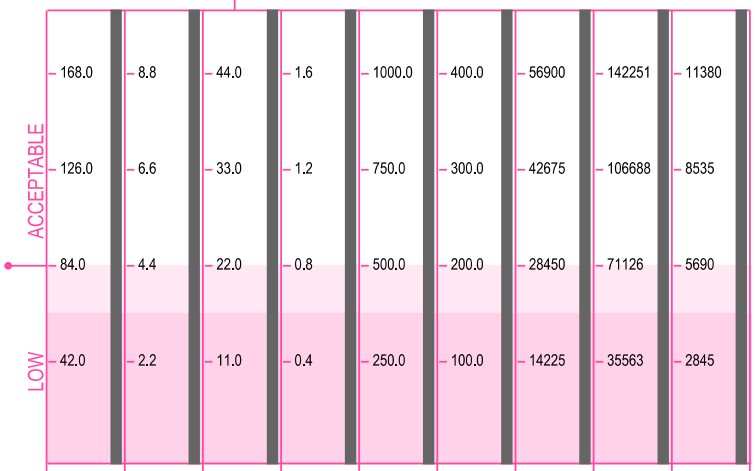
PREVIOUS TEST RESULTS

SIGNIFICANT RATIOS



Ca/P	Na/K	Ca/K	Zn/Cu	Na/Mg	Ca/Mg	Fe/Cu
9.56	1.75	38.25	9.23	.27	5.86	.41

TOXIC RATIOS



Ca/Pb	Fe/Pb	Fe/Hg	Se/Hg	Zn/Cd	Zn/Hg	S/Hg	S/Cd	S/Pb
1530.0	16.0	80.0	4.5	18000.0	1800.0	223750	2237500	44750

ADDITIONAL RATIOS

RATIO	CALCULATED VALUE		EXPECTED
	Current	Previous	
Ca/Sr	278.18		131/1
Cr/V	16.67		13/1
Cu/Mo	650.00		625/1
Fe/Co	1600.00		440/1
K/Co	4000.00		2000/1
K/Li	666.67		2500/1
Mg/B	652.50		40/1
S/Cu	1147.44		1138/1
Se/Tl	180.00		37/1
Se/Sn	9.00		0.67/1
Zn/Sn	3600.00		167/1

LEVELS

All mineral levels are reported in milligrams percent (milligrams per one-hundred grams of hair). One milligram percent (mg%) is equal to ten parts per million (ppm).

NUTRITIONAL ELEMENTS

Extensively studied, the nutrient elements have been well defined and are considered essential for many biological functions in the human body. They play key roles in such metabolic processes as muscular activity, endocrine function, reproduction, skeletal integrity and overall development.

TOXIC ELEMENTS

The toxic elements or "heavy metals" are well-known for their interference upon normal biochemical function. They are commonly found in the environment and therefore are present to some degree, in all biological systems. However, these metals clearly pose a concern for toxicity when accumulation occurs to excess.

ADDITIONAL ELEMENTS

These elements are considered as possibly essential by the human body. Additional studies are being conducted to better define their requirements and amounts needed.

RATIOS

A calculated comparison of two elements to each other is called a ratio. To calculate a ratio value, the first mineral level is divided by the second mineral level.
EXAMPLE: A sodium (Na) test level of 24 mg% divided by a potassium (K) level of 10 mg% equals a Na/K ratio of 2.4 to 1.

SIGNIFICANT RATIOS

If the synergistic relationship (or ratio) between certain minerals in the body is disturbed, studies show that normal biological functions and metabolic activity can be adversely affected. Even at extremely low concentrations, the synergistic and/or antagonistic relationships between minerals still exist, which can indirectly affect metabolism.

TOXIC RATIOS

It is important to note that individuals with elevated toxic levels may not always exhibit clinical symptoms associated with those particular toxic minerals. However, research has shown that toxic minerals can also produce an antagonistic effect on various essential minerals eventually leading to disturbances in their metabolic utilization.

ADDITIONAL RATIOS

These ratios are being reported solely for the purpose of gathering research data. This information will then be used to help the attending health-care professional in evaluating their impact upon health.

REFERENCE RANGES

Generally, reference ranges should be considered as guidelines for comparison with the reported test values. These reference ranges have been statistically established from studying an international population of "healthy" individuals.
Important Note: The reference ranges should not be considered as absolute limits for determining deficiency, toxicity or acceptance.

Health history for hair test 1342

1. What are your current symptoms and health history? *Hashimoto's, Hypothyroid, Candida Overgrowth, insomnia, anxiety*

2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc…) *Wisdom teeth removed at age 17, first amalgam was when very young, probably around 5 years old? I've had many amalgam fillings since then. I had one amalgam extraction done by a conventional dentist with no protection in November of 2015*, and *one amalgam extraction done by a holistic dentist in June of 2016. I currently have 4 amalgams left.*

3. What dental work do you currently have in place? What part of the dental clean-up have you completed? *I currently have several partial crowns, and numerous fillings, with 4 amalgam fillings left.*

4. What dentistry did your mother have at any time before or during pregnancy? *She had several old amalgam fillings.*

5. What vaccinations have you had and when (including flu and especially travel shots)? *I had all vaccinations offered when I was a child (born 1983) and had guardasil in 2006.*

6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? *Taking* 2.5 mg of cytomel, *240 mg mag glycinate, Infinity B vitamins and MTHFR vitamins, Neuro night essentials, mood plus, oxicell cream, adrenal desiccated, sibiotica probiotic, thyrotrophin pmg, taurine 500mg, vitamin C 600mg, 1,000 mg potassium,*

7. What is your age, height and weight? *34, 5'4", 125lbs*

8. Other information you feel may be relevant? *I had a baby in January of 2016, and my symptoms got exponentially worse. I am currently nursing. I eat no processed foods, gluten free, dairy free, grain free, and try to limit fruit. I have MTHFR, FUT2 and other genetic mutations.*

9. What is your location – city & country (so that we can learn where certain toxins are more prevalent). *Indiana, PA (it is next to the most toxic town in Pennsylvania).*