

LABORATORY NO.: 1245242

PROFILE NO.: 2

SAMPLE TYPE: SCALP

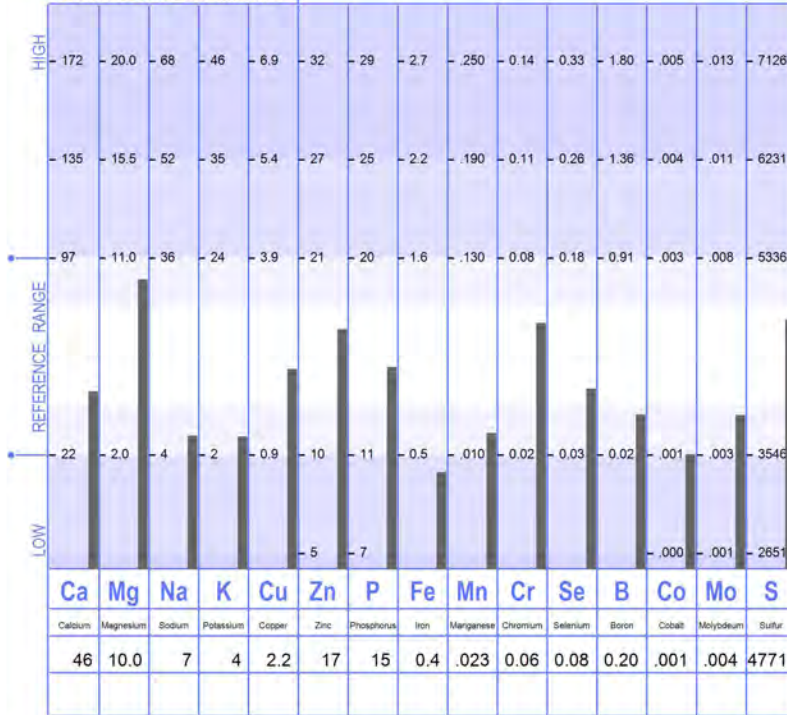
AGE: 53

SEX: F

METABOLIC TYPE: SLOW 1

DATE: 4/8/2015

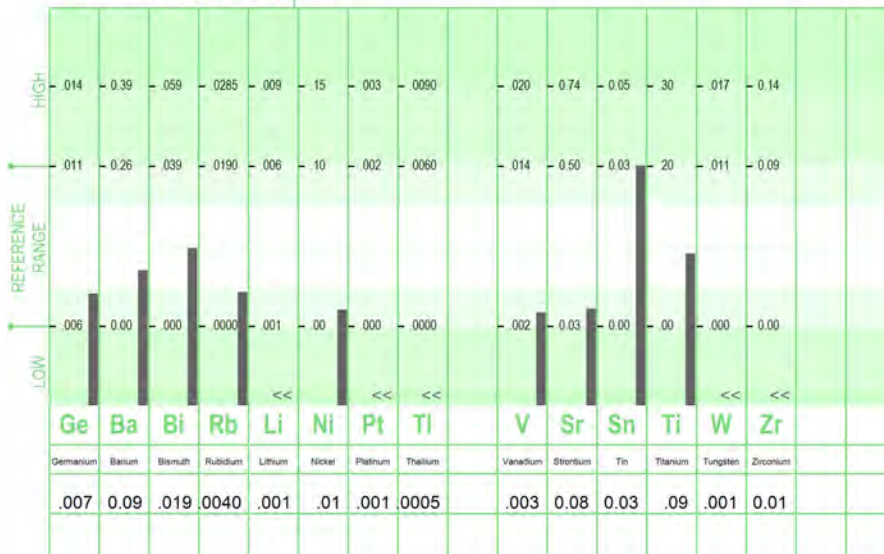
NUTRITIONAL ELEMENTS



TOXIC ELEMENTS



ADDITIONAL ELEMENTS



">>": 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.

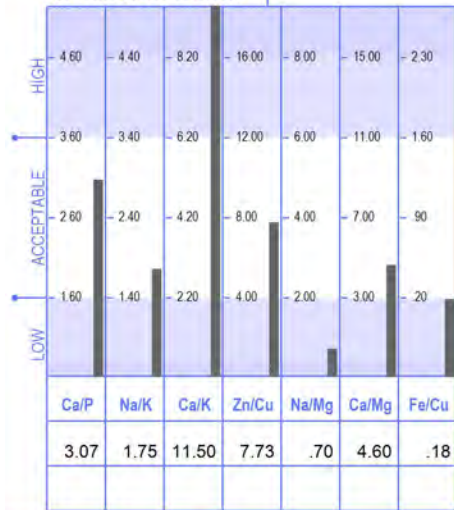
Laboratory Analysis Provided by Trace Elements, Inc. an H. S. S. Licensed Clinical Laboratory. No. 45 D0481787

4/8/2015

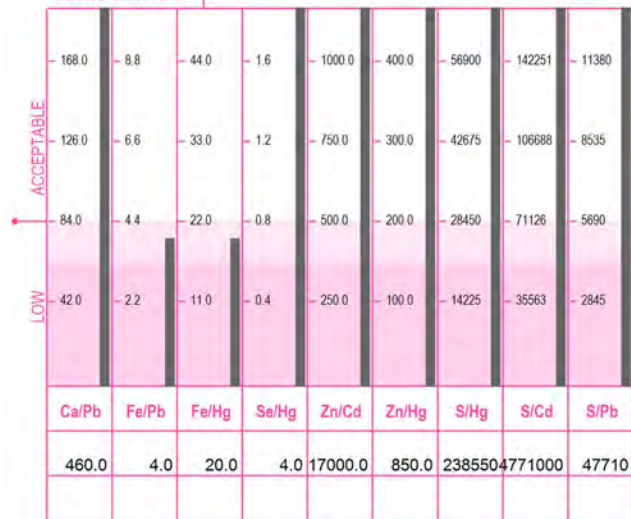
CURRENT TEST RESULTS

PREVIOUS TEST RESULTS

SIGNIFICANT RATIOS



TOXIC RATIOS



ADDITIONAL RATIOS

| Ratio | Current | Previous |
|-------|---------|----------|
| Ca/Sr | 575.00 | 131/1 |
| Cr/V | 20.00 | 13/1 |
| Cu/Mo | 550.00 | 625/1 |
| Fe/Co | 400.00 | 440/1 |
| K/Co | 4000.00 | 2000/1 |
| K/Li | 4000.00 | 2500/1 |
| Mg/B | 50.00 | 40/1 |
| S/Cu | 2168.64 | 1138/1 |
| Se/Tl | 160.00 | 37/1 |
| Se/Sn | 2.67 | 0.67/1 |
| Zn/Sn | 566.67 | 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.



SEX: Female
AGE: 55

4040 Florida St Ste 101
Mandeville, LA 70448 U.S.A.

Toxic & Essential Elements; Hair

| TOXIC METALS | | | | |
|----------------------------|------|----------------|-----------------------|---|
| | | RESULT µg/g | REFERENCE INTERVAL | PERCENTILE 68 th 95 th |
| Aluminum | (Al) | 0.7 | < 7.0 | |
| Antimony | (Sb) | < 0.01 | < 0.050 | |
| Arsenic | (As) | 0.025 | < 0.060 | |
| Barium | (Ba) | 0.82 | < 2.0 | |
| Beryllium | (Be) | < 0.01 | < 0.020 | |
| Bismuth | (Bi) | 0.010 | < 2.0 | |
| Cadmium | (Cd) | < 0.009 | < 0.050 | |
| Lead | (Pb) | 0.05 | < 0.60 | |
| Mercury | (Hg) | 0.07 | < 0.80 | |
| Platinum | (Pt) | < 0.003 | < 0.005 | |
| Thallium | (Tl) | < 0.001 | < 0.002 | |
| Thorium | (Th) | < 0.001 | < 0.002 | |
| Uranium | (U) | 0.090 | < 0.060 | |
| Nickel | (Ni) | 0.17 | < 0.30 | |
| Silver | (Ag) | 0.19 | < 0.15 | |
| Tin | (Sn) | 0.07 | < 0.30 | |
| Titanium | (Ti) | 0.16 | < 0.70 | |
| 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) | 450 | 300- 1200 | |
| Magnesium | (Mg) | 110 | 35- 120 | |
| Sodium | (Na) | 64 | 20- 250 | |
| Potassium | (K) | < 3 | 8- 75 | |
| Copper | (Cu) | 16 | 11- 37 | |
| Zinc | (Zn) | 170 | 140- 220 | |
| Manganese | (Mn) | 0.15 | 0.08- 0.60 | |
| Chromium | (Cr) | 0.36 | 0.40- 0.65 | |
| Vanadium | (V) | 0.028 | 0.018- 0.065 | |
| Molybdenum | (Mo) | 0.016 | 0.020- 0.050 | |
| Boron | (B) | 0.17 | 0.25- 1.5 | |
| Iodine | (I) | 0.59 | 0.25- 1.8 | |
| Lithium | (Li) | < 0.004 | 0.007- 0.020 | |
| Phosphorus | (P) | 155 | 150- 220 | |
| Selenium | (Se) | 0.96 | 0.55- 1.1 | |
| Strontium | (Sr) | 0.85 | 0.50- 7.6 | |
| Sulfur | (S) | 46100 | 44000- 50000 | |
| Cobalt | (Co) | 0.004 | 0.005- 0.040 | |
| Iron | (Fe) | 8.6 | 7.0- 16 | |
| Germanium | (Ge) | 0.033 | 0.030- 0.040 | |
| Rubidium | (Rb) | < 0.003 | 0.007- 0.096 | |
| Zirconium | (Zr) | 0.011 | 0.020- 0.42 | |

| SPECIMEN DATA | | RATIOS | |
|----------------------------|--------------------|-----------------|---------------|
| COMMENTS: | | ELEMENTS | RATIOS |
| Date Collected: 02/10/2017 | Sample Size: 0.2 g | Ca/Mg | 4.09 |
| Date Received: 02/16/2017 | Sample Type: Head | Ca/P | 2.9 |
| Date Completed: 02/21/2017 | Hair Color: Brown | Na/K | 21.3 |
| Methodology: ICP/MS | Treatment: | Zn/Cu | 10.6 |
| | Shampoo: | Zn/Cd | > 999 |
| | | RANGE | |
| | | | 4- 30 |
| | | | 1- 12 |
| | | | 0.5- 10 |
| | | | 4- 20 |
| | | | > 800 |

Hair Test 1225

Current symptoms:

Physical weakness, stiff muscles and tendons, anxiety, fear, digestive issues: swelling of the ankles, when too much liquid intake pressure around ears, neck, always cold when others are warm.

Very recent: heart skipping a beat or heart flutters...don't know. Sensitivity to noise and bright light, poor vision at night. Before my health was not bad, only last several years got worse. Lost weight (10 lb in 2011)-- stress related).

Currently on thyroid hormones: 1.5 grain of Nature-throid, 15 mcg T3, also some Vitamins and minerals, adrenal support.

Dental history:

Wisdom teeth removed in my teenage years. Three extraction of molars my late twenties, early thirties. First root canal about 17 years old, others later. Still have one root canal. No braces.

First amalgam at age 28, and the rest 3-4 years later (6 of them: 4 large and 2 small). Amalgams are removed in 2013 by safely procedure.

Mother dentistry:

unknown during pregnancy, later she had some amalgams, she passed away last year at 92 years of age.

Vaccination:

about 20 in childhood up to college, no flu or travel shots.

Meds and supplement at time of the test:

No medication, same vitamins, like C, D3 and Mg, not every day.

Age: 54

Hight: 164 cm (5'5")

Weight: 50 kg (110 lb)

Location: north border of New York City