# MINERAL POWER program

## **Understanding the Metal Ratios**

These are the Trivalent Toxic Metal Extended Ratios not on the Trace Elements Hair Mineral Analysis test that show your toxicities for Arsenic (As), Aluminum (Al), Tin (Sn), and Thallium (Tl). These metals reduce your body's ability to make energy. Your toxicity level for each is in yellow.

### **ARSENIC (AS)**

	Mo / As	Se/As	P / As
Your Ratios	0.286	7.143	1071.429
Normal	> 3	>22	> 8000
Mild Toxicity	2.25	16.5	6,000
<b>Moderate Toxicity</b>	1.5	11	4,000
Toxic	< 0.75	<5.5	< 2000

#### **ALUMINUM (AL)**

	B/AI	Mg/Al	P/AI	Se/Al
Your Ratios	0.433	40.889	16.667	0.111
Normal	> 4.7	>70	>160	>1.1
Mild Toxicity	3.525	52.5	120	0.825
<b>Moderate Toxicity</b>	2.35	35	80	0.55
Toxic	<1.175	< 17.5	<40	<0.275

### TIN (SN)

	Se / Sn	Zn / Sn
Your Ratios	3.333	933.333
Normal	> 15	> 2130
Mild Toxicity	11.25	1,600
<b>Moderate Toxicity</b>	7.5	1,065
Toxic	< 3.75	< 530

### **THALLIUM (TI)**

	K/TI	Rb/TI
Your Ratios	36,000.00	18.600
Normal	26,000	19
Mild Toxicity	19,500	14.25
<b>Moderate Toxicity</b>	13,000	9.5
Toxic	6,500	4.75

# 1

# MINERAL POWER program

### **Understanding the Mineral Ratios**

This page explains what the Significant Ratios on page 2 of your Trace Elements hair mineral analysis mean.

Ca/P	Metabolic Rate	

11.00

Ideal ratio = 2.63

High ratio = > 2.9

> 8 = Extreme High - Very Slow metabolism 2.9–8.0 = High = Slow Metabolism

2.3-2.8 = Good range = Healthy Metabolism

1.5-2.3 = Low = Fast Metabolism

<1.5 = Extreme Low = Very Fast Metabolism Low ratio = < 2.3

#### Protein Usage

Phosphorus (P) levels indicate protein usage, protein reserves, & tissue breakdown. When P is high or low ask the following questions:

Ø Eating enough protein?

Ø Good protein sources?

Ø Digesting protein (HCL)?

High P *could be* a pubic hair sample, excessive tissue breakdown, impaired digestion.

Low P could be protein deficiency, excessive tissue breakdown, impaired digestion, poor source of protein, (low P is worse than high), impaired protein synthesis ( worse with low Zn)

Na is a rough indication of *Aldosterone*, release - pro-inflammatory

K is a rough indication of *Cortisol* release, anti-inflammatory

#### MOST IMPORTANT RATIO

Na/K Overall Vitality

1.83

Ideal ratio = 2.40

> 12 = Extreme High

4.0-12 = High

2.3-3.9 = Good range

2.0-2.3 = Low

1.0-1.9 = Very Low

<1.0 = Extreme Low – (see below...)

High ratio = toxins will often elevate Na, acute stress, inflammation, anger

**Low ratio** = potentially experiencing one or more of the following: feelings of frustration, decreased awareness of symptoms, adrenal fatigue, chronic stress, lowered energy & energy reserves, decreased immunity, carbohydrate intolerance, poor digestion, allergic tendencies, diabetic tendency, liver & kidney stress, cardiovascular stress, tendency toward degenerative disease, resentment, hostility

Ca/K Thyroid

9.17

Ideal ratio = 4.20

> 50 = Extreme Hypothyroid

8.1–50 = Moderate Hypothyroid

3.0-8.0 = Good Range

1.0-2.9 = Moderate Hyperthyroid

<1.0 = Extreme Hyperthyroid

High ratio = Decreased thyroid effect; i.e. Hypothyroid, thyroid hormone has difficulty getting into cell. Nutrients and glucose have a reduced ability to enter cell.

**Low ratio** = Increased thyroid effect (at the cellular level) and or toxicity; i.e. Hyperthyroid.

High Ca = Body is protecting itself, person may be defensive, lowered cell permeability, calcium shell if >170

Low Ca (<30)= hypersensitivity, anxiety, nervousness, muscle cramps or twitches, increased cell permeability, unprotected psychologically, Ca deficiency

Zn/Cu Hormones	Indicates potential hormone imbalance, car	rdiovascular stress, tendency toward atherosclerosis, or Zn loss
Zn/Cu Hormones	>15 = Extreme High	
	10.1–15 = High	Zn levels roughly correlates with Progesterone effect in women, testosterone effect in men.
	6.5–10.0 = Good range	Cu levels roughly correlates with Estrogen effect in both sexes.
3.08	3.0–6.4 = Low	
<u>3.00</u>	<3.0 = Extreme Low	
	High ratio = can mean hidden copper to	exicity.
	Slow oxidizers with a "Low Cu" usually hav	ve Low Bioavailable Copper and Excess, Unbound Copper (toxicity) which is quite toxic to the body
Ideal ratio = 8.00	Fast oxidizers usually have true lov	
	<b>_</b>	
N. /B.E	> 20 = Extreme High	
Na/Mg Adrenal	6.1–20 = High	
	3.0–6.0 = Good ratio	
	1.0–2.9 = Moderate Adrenal Fatigue	
0.00	<1.0 = Extreme Adrenal Fatigue	
<u>0.90</u>	•	e adrenal output, acute stress, tendency for Mg deficiency
	Low ratio = decreased adrenal effect, ch	
	Excess Calcium and/or stress set the sta	
Ideal ratio = 4.00	a loss of Sodium and Potassium at the ce	ellular level. It is akin to "air being let out of a tire"
radarrano indi	to balance the HIGH Calcium with the offe	en LOW Magnesium found in Adrenal Fatigue
Ca/Mg Blood Sugar	> 18 = Extreme High	
	13.1–18.0 = High	
		nal defensiveness/conflict, addictive lifestyle not in client's best interest, spiritual conflict
4.40	•	y towards <i>Insulin Resistance, Relative Mg Deficiency</i>
<u>4.48</u>	3.4–9.9 = Good Range - sign of good of	
	< 3.3 = Magnesium loss, may have blood	
	2.5–3.3 = Moderate Mg Loss	u ougu. looudo
Ideal ratio = 7.00	< 2.5 = Extreme Mg Loss	
racarrano 1.00	<b>1</b>	
	- -	
Fe/Cu Infections		
	This ratio shows signs of potential infec	ctions in the body, but is not a confirmation of infection until further testing is done.
	> 2 = High Tendency for Viral Infections	
0.04	1.2–2 = Moderate tendency for Viral In	
<u>0.21</u>	.5–1.2 = Good ratio	
	.1–.5 = Moderate Tendency for Bacter	rial Infections
	<.1 = Extreme Tendency for Bacterial In	
	<b>-</b>	

Ideal ratio = .9



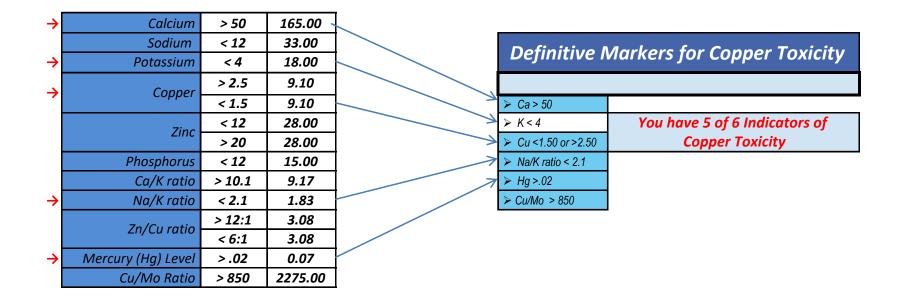
# MINERAL POWER program

## **Copper Toxicity Profile**

This shows your tendency for Copper Toxicity/Dysregulation based on your Hair Mineral Analysis.

Note, the hair mineral analysis is not 100% reliable in showing copper toxicity. Some that seem copper toxic on the HTMA are in fact NOT copper toxic once a Urine Metals Push/Challenge test is performed.

If you are copper toxic on the HTMA, the Urine Metals test is advised for confirmation.



Minerals and Metals			
Element	Your Level	Ideal	
Ca	165.0	60	
Mg	36.8	6	
Na	33.0	20	
K	18.0	13	
Cu	9.1	2.4	
Zn	28.0	16	
P	15.0	16	
Fe	1.9	1.1	
Mn	0.49	0.07	
Cr	0.07	0.05	
Se	0.10	0.12	
В	0.39	0.45	
Мо	0.004	0.005	
U	0.0035	0.0001	
As	0.014	0.002	
Be	0.001	0.001	
Hg	0.07	0.02	
Cd	0.01	0.01	
Pb	0.10	0.10	
Al	0.90	0.30	
Sn	0.03	0.01	
TI	0.00	0.01	
Rb	0.01	0.02	