



# DISCOVER

# THE ESSENTIAL MINERAL

#### COPPER IS A CRITICAL COMPONENT OF ENZYME ACTIVITY IN THE BODY. AS A RESULT, **MANY FUNCTIONS DEPEND ON IT TO:**



#### **Support Joint & Bone Health\*:**

Copper supports strong cartilage and flexible connective tissue.\* Without copper, your body cannot absorb iron and both iron and copper are needed for the formation of healthy red blood cells. Red blood cells optimize oxygen utilization and transport throughout the body, which supports strong bones.



### **Promote Healthy Hair, Skin & Nails\*:**

When it comes to beauty - healthy hair, skin, and nails copper again plays an important role. It cross-links collagen with elastin, making your connective tissue strong and flexible. It also stimulates the production of melanin, which is responsible for pigmentation of hair and skin.



#### **Support Healthy Cardiovascular** Function\*:

Copper supports the construction and cross-linking of cardiac proteins resulting in soft, durable and flexible vasculature, a hallmark of cardiovascular health.\* Conversely, copper deficiency has been reported as associated with a number of cardiovascular concerns.\*



#### Improve Energy & Metabolism\*:

It works with magnesium in the mitochondria to efficiently formulate ATP, the principal molecule for storing and transferring energy in the cells. This conserves energy and helps increase metabolism efficiency.\*

4 IN DAILY+
WELLNESS\* THE ESSENTIAL MINERAL

## BIO-ACTIVE COPPER HYDROSOL™

#### **The Ultimate Refinement of Copper**

There are parts of the body that preferentially utilize each of the forms of copper. Sovereign Copper's Dual Action copper (I) & (II) proprietary blend facilitates effective enzymatic activity necessary to support vital body functions.\*

Sovereign Copper is more bio-available to the body, eliminating the extra work that must be done to convert it from one state to the other.



SAFE\*

With a low parts per million (ppm) concentration within the Recommended Daily Intake (RDI), it is safe for the whole family including children 4 years & older.\*



Just 3 ingredients: 99.999% pure copper, pharmaceutical-grade water and a hint of pure silver.



Sovereign Copper delivers two forms of copper (I) & (II) that work together for superior absorption, cellular uptake and metabolism.\*

Copper Recommended Daily Intake (RDI): Adults 900 mcg per day Guidelines^: Maintenance\*: 1 tbsp daily (150 mcg/day), DV 17% Long-Term Support\*: 2 tbsp daily (300 mcg/day), DV 34% Short-Term Support\*: 3 tbsp daily (450 mcg/day), DV 50%

Not recommended for individuals with Wilson's Disease



Bio-Active Copper Hydrosol™ is a proprietary blend of positively-charged (bio-active) copper (I) & (II).













# WHAT IS THE DIFFERENCE BETWEEN COPPER (I) AND COPPER (II)?

Most supplements provide copper in the form of copper (II) usually as an oxide, mineral salt, organic salt, or amino acid chelate. However, the solubility and absorption of these copper (II) supplements vary. In the body, copper shifts between copper (I) & (II). There are parts of the body that preferentially utilize each of the forms of copper to support various vital functions.\* Unlike any other supplement, Sovereign Copper® Bio-Active Copper Hydrosol™ offers the body copper in both forms: copper (I) & (II). This distinguishing feature makes all the difference when it comes to absorption.\*



#### **COPPER (I) & (II) DUAL ACTION PROVIDES MORE BIO-AVAILABILITY**

By providing the body (and therefore the cell membranes) both forms of the mineral, the hydrosol is more bio-available to the body eliminating the extra work that must be done to convert it from one state to the other. This increases the probability of cellular absorption. It essentially opens two pathways into the cell and one of those pathways copper (I) is remarkably simple, preserving energy.

At the level of the cell membrane, copper (II) interacts with specific receptor sites, where it is converted to copper (I) and transported into the cell. In contrast, when copper (I) reaches the cell membrane, it's taken in without any conversion (or energy) needed.

**Additionally:** Copper supports free radical scavenger activity as it is a necessary mineral in 2 of the 3 superoxide dismutase enzymes present in the body. In physiological conditions, the superoxide dismutases, together with ROS (Reactive Oxygen Species) scavengers as vitamins E, A, and C maintain a steady state between oxidant and antioxidant systems (Russo et al., 2011)<sup>1.</sup>

<sup>1</sup>Russo et al., 2011 in: Paolo Mondola, et al., The Cu, Zn Superoxide Dismutase: Not Only a Dismutase Enzyme, Frontiers in Physiology, 29 November 2016



## THE ESSENTIAL MINERAL

#### Getting enough copper can be difficult

The best dietary sources of copper are: Organ meats, shellfish, whole grains, leafy greens, shitake mushrooms, nuts, seeds and dark chocolate. These foods are not common in today's highly processed diets.

Only 30-40% of the amount of copper that we consume in food is absorbed.<sup>1</sup>

Deficiency or insufficiency can be caused by malnutrition, chronic diarrhea and other health conditions.\* High intake of vitamin C, zinc, antacids and high fructose corn syrup can also deplete copper supply.

#### **ESSENTIAL IN COLLAGEN PRODUCTION**

Copper is critical for the cross-linking of collagen and elastin, making them strong and flexible. Copper is required for the production of red blood cells and flexible connective tissue, which supports joint and bone health and skin elasticity.\*

A good analogy would be to think of copper as a requirement for making the "mortar" that holds the collagen and elastin protein "bricks" together.\*

Wapnir RA. Copper absorption and bioavailability. Am J Clin Nutr 1998 May; 67 (5 Suppl): 1054S - 1060S

As an essential mineral, copper is a critical component of enzyme activity, affecting many processes throughout the body\*:



Supports strong cartilage and flexible connective tissue



Promotes strong hair, skin & nails



Supports healthy cardiovascular function

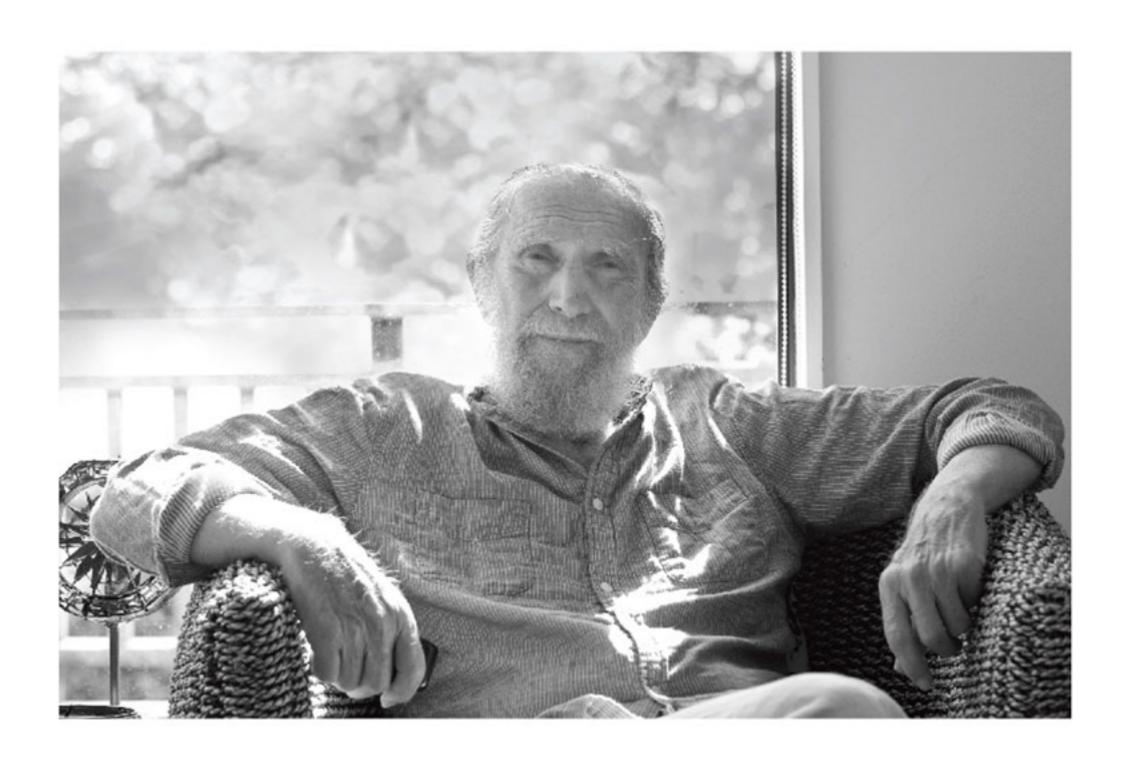


Improves energy & metabolism

Getting an adequate supply of copper is easier with Sovereign Copper<sup>®</sup>. Its proprietary blend of copper (I) & (II) provides optimal absorption and energy efficiency resulting in 4 in 1 Daily+ Wellness.\* A little goes a long way!



# HEALTH SOVEREIGNTY STARTS WITH YOU



Stephen L. Quinto, Founder

Sovereignty means being free from outside influence, and health sovereignty is all about taking control of your well-being. It means knowing your options, making informed decisions, and owning the path you're on to live your best life. Your health is in your hands.





The Leader in Hydrosol Technology™