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The Science of
Sugars

Why is pH Fusion Tea So Unbelievably Functional?

Research scientists learn more about the mystery of the possible fusion solution: pH, fusion, ion gates, glucose/sodium transport, Trehalose and how neurological benefits are achieved to improve mental celerity, Alzheimer's, Parkinson's, MS and ALS

by JC Spencer

Glycoscience Lesson #33
Part Four of Four

pH Fusion Tea is designed to support red blood cells:

Plasma membrane of human red blood cells contain transmembrane proteins that permit the diffusion of glucose from blood into the cell. While I believe that pH Fusion Tea facilitates diffusion of the microtrace minerals, this has not yet been proven to my satisfaction.

Vital Importance of Trace Minerals

Trace minerals are crucial for body functions in every aspect of life and maintenance and in the repair of tissues and bones. Scientists do not yet understand the function of all the trace minerals because some are used in extremely small amounts to do extremely important functions in their reacting with each other.

There is greater importance to the valence electrons, the electron affinity, the atomic number, the atomic weight, the molar volume, the stability of the isotopes, the ionization energies (the least required energy to release a single electron from the atom), electron configuration, the electronegativity, the ionic radius and other factors. Medical science understands very little about what all this means and how these influences impact the human cell.

Properly utilized, trace minerals may prove to be one of the most significant scientific discoveries of modern time. Balance is the key. Modulation and balance are attained by trace elements and proper nutrition.

Trace elements are nanoparticles or nanopowders. In **The Trehalose Handbook Volume Two**, I discuss the health benefits of ~80 trace minerals in pH Fusion Tea. Here we will "glance" at sodium which is not to be confessed with too much salt which is the source of compounding health problems. Sodium is an electrolyte and one of its functions is to pass through the cell membrane. The Structure Function of sodium plays a deciding role in cellular metabolism. Sodium, an inorganic nutrient, unlike other minerals, penetrates the cell membrane and modulates the pH which is vital to all metabolism. Other inorganic minerals do not easily absorb into the human cell. Sodium is an alkali metal, unique and vital. It has an atomic number 11, an atomic weight: 22.98976928, a positive charge +1. Sodium with

potassium flows back and forth across cell membranes to maintain homeostasis in the cell. Salt and sodium are not the same thing. Table salt is 40 percent sodium and 60 percent chloride. Sodium bicarbonate contains no chloride. It is the chloride with the sodium that causes more problems. Sodium balance is brought by other minerals and tract minerals including potassium, magnesium, and calcium. The balance of sodium and water in the body can be disrupted if there is not enough water. Without sodium, nerves and muscles would cease to function, the absorption of major nutrients would be impaired, and the body would not be able to maintain adequate water and mineral balance.

We Invite Others to Research with us

Physicians, nurses, and researchers are welcomed to assist in evaluation of their patients with health challenges especially neurological, including MS, ALS, Alzheimer's, Parkinson's and Huntington's, as well as diabetes who participate in a pH Fusion Tea Pilot Survey.

If you think this is complex or perplexing, wait until we understand the ~800,000 glycans and glycoproteins on the surface of each cell and how we can further influence their communication ability.

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Sources and References

This lesson is a summary of the complex working of the Glucose/Sodium Transport System discussed in Chapter 6 of **The Trehalose Handbook Vol. One** and Chapter 10 of **The Trehalose Handbook Vol. Two** titled "A Quick Study of the Importance of Trace Minerals in the Human Body".

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SMART SUGARS www.OneSmartSugar.com/video.html
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