

## Nano solutions **For A Healthy Life!**

### **What are NANO Particles and why are they important?**

The term Nano means 1 divided by 1,000,000,000 thus very small. Nano-Flax has a particle size that is extremely small which means it is very easily absorbed through ion channels into the cells of the body making it very fast and effective to meet the bodies needs.

With Nano Particles being so tiny, they form a greater surface area, in many cases over 1250 times greater than a non nano process, that in turn increases the efficiency of absorption and thus better utilization of the minerals in question. The particles are smaller and thus easily pass through cell membranes, allowing assimilation straight into the bloodstream allowing them to become very effective.

The smaller the particles of any substance, the easier it is to be absorbed. Your skin, digestive tract and under your tongue contain membranes that are selective in what they let through. Acting like tiny filters, only the smallest of particles will be absorbed straight away. Nano Technology creating smaller particles allows this higher and faster absorption to happen. Quicker digestion and faster utilization is a certainty.

Nano Technology miniaturizes powdered materials, such as our Calcium/Nano-Flax (Sprouted Flax Seed). into molecule sized particles. "NANO", is one step down from the measurement micro. As with all manufactured raw nutritional materials, a single particle may be made up of thousands of molecules of that ingredient.

Nano particles are exciting because at such extremely tiny sizes, everything has new properties.

Nano Particles, objects with a width of a few nano meters to a few hundred, contains tens to thousands of atoms and exists in a realm that straddles the quantum and the Newtonian world of physics making the properties very special for any and all applications.

The picture below gives us a good view of why smaller is better. This picture is only a representation of how minerals enter the cells but it should be appreciated that such activity can be more effective with proper sized minerals and those being NANO.

## A Cell of the Body and Linking Channels

QuickTime™ and a  
decompressor  
are needed to see this picture.

What is represented is channels that accept minerals. As can be seen the smaller the particle the greater the absorption and delivery of the mineral.

The circles with lines represent membrane through which the NANO particle can enter the cell. The small particles enter after going through the channels and go into cells to be used more efficiently.

The dots shown in the center of the cell depict the ease of which the NANO particles enter the cell. Attention is drawn to the fact there are a greater number of small particles and that the concentration of particles decreases as the particle size increases.