



# **EcoProven**

## **Anti-Viral Mouthwash**

### **COLLOIDAL CHEMISTRY & the SARS-CoV-2 Virus**

In simplest terms, a colloid is defined as a solution containing nano-sized particles that remain evenly distributed throughout a solution, and do not settle to the bottom or dissolve. Colloids, when added to solutions will surround and break up the compounds to form Micelles, whose extremely small size and very high surface area to volume ratio enable them to easily penetrate other cells or particles. (It is in this way that the micelles penetrate the fatty outer lipid bi-layer of the SARS-CoV-2 virus and emulsify (destroy) it, rendering the virus inert.

Micelles possess a very profound ability to reduce or penetrate surface tension. Their physical action is electrical in nature (with each end possessing an opposing ionic charge) that along with its size can easily penetrate certain biological membranes. The charged particles repel each other resulting in random movement, which works to break up oil, water or fat molecules among others. They continually pass through other molecules in their path, breaking them apart.

Water molecules are attracted to colloids much like a magnetic field. When the attraction of the colloids becomes greater than the force holding the water molecules together, they disperse into individual particles. The power of the colloid is amazing in that it works without the undesirable side effects of petrochemical dispersants. Its colloid super action keeps on working as long as there is even a microscopic amount of water present.

In an easy to visualize analogy, this would be like being at war and being caught in a never ending military crossfire. It would not end until there were not any bullets left and the enemy in the middle would be shredded. From a chemical perspective, the electrical ion charges keep firing as long as water is present. When the water finally dries up, the enemy SARS-CoV-2 virus in the middle has been destroyed.

This is how EcoProven Anti-Viral Mouthwash destroys the SARS-CoV-2 virus.