

The need to legitimise Quantum reconstituted water suspended Silver in the near future for topical use only

Abstract: Internal Memo

Right from the start when I was introduced to the world of Colloidal Silver at a meeting at Ivory Rock one Sunday in late 2007, followed up by an invitation at Griffith University in early 2008. From that visit, I realised that a proper identity or description of so-called “Colloidal Silver did not exist and that in 2003, both colloidal and ionic silver were banned as a misrepresentation as a medicine. It was still able to be marketed as “treated water’ whatever that meant. An even more complex anomaly that existed was the complete absence of suitable instrumentation for determining the properties of the silver product in question. Later I was also to realise that the aqueous medium vehicle for the silver product presented more questions than answers. Self-imposed research into this debacle of conflicting concepts what the material actually was and its numerous unproven claims, resulted in a scientific paper being published in 2014.

Introduction:

Even today, after a decade of research and experimentation and making many discoveries as to what actually constitutes so-called colloidal silver and reaching a point, where its properties including that for the water used can be identified. Nevertheless of this progress, the world at large is still in complete ignorance and only able to use Buzzwords such as “colloidal Silver’ and “AgNPs” as an indicator of the subject matter of their research and trials. Having no standard to go by and totally unaware how this material ought to be produced, tested and used appropriately.

So-called colloidal silver is not a colloid such as real colloids like milk and toothpaste and no made up of particles either. Neither is the material a dispersion but instead should be more accurately described as collections of Quantum Nano Silver in an electrical suspension and preferably produced by electro-photochemistry.

The present situation:

With most of those involved in the production or use of quantum reconstituted silver being unable to identify the material or able to provide information about its properties, Colloidal Silver has gained a reputation of distrust. This calls for a complete overhaul that should include an International Standard, a proper name, a detailed nomenclature, an accurate scientific description and a listing of all relevant properties.

An approximate description

The nano metre sized neutral atomic silver clusters electrically suspended in an aqueous medium most likely also contains pico metre sized neutral silver. The suspension is of a repelling nature and ranges from a zero potential at the Iso-electric point to a negative figure of 100mV. At approximately minus 25 to 35mV the repelling action is strong enough to counteract the always present attractive forces of the “van der Waals Force”. The repelling force is known as the Zeta potential as well as the lesser known Nernst and Stern potentials. These charges decay fast over distance. The Stern potential is the electrical charge brought about by the positive charges of the hydrogen atoms or its ions surrounding the negative cluster of silver atoms.

All of this is a ‘mouthful’ and impractical/. For that reason it can be suggested to use the description:

Quantum reconstituted water suspended silver clusters. We can add to that the following facts:

**** Quantum reconstituted suspended atomic silver is held together by covalent bonding and is no longer considered metallic in the accepted sense. Removal of the outer electron and its subsequent return by way of colliding ionizing radiation at 420nm are sub-atomic events and beyond the scope of classical physics.***

**** The adjective “Quantum” relates to cluster sizes at 10nm in size and lower and no longer subject to gravity as larger clusters are.***

**** Nano sized material between 10nm and smaller contain quantum confined electrons that once released by Local Plasmon Resonance may actually blue shift in wavelength brought about by the confined and suddenly released energy.***

The way to go forward.

To many false claims have been made and continue unabated about silver products that can not be substantiated and this has resulted in the Therapeutic Goods Act (TGA) responsible for controlling all matter MEDICAL, to ban both colloidal and ionic silver in legislation passed in 2003. As far as I know, those peddling any form of silver products and making unsubstantiated medical claims are actively pursued by the TGA for prosecution. I know of one such person.

In our collaboration we must protect ourselves from ever getting involved in such unlawful activities and I would recommend refraining in conversation and papers written to avoid meaningless “buzzwords” named in the legislation, such as Colloidal Silver, Ionic Silver, AGNPs and Silver Nano Particles.

Note! I did have a look at the legislation some years ago and was disappointed at the obscurity and inaccuracy describing the material being banned. For that reason we must describe the material the subject of our research and simultaneously embrace doing things to a standard. More on this subject later!

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