



CENTER FOR NEW MEDICINE

## Ionic/Colloidal Silver

The use of silver as an effective antiseptic, antimicrobial, antibacterial, and antiviral substance has its roots in the very beginnings of traditional medicine. Now a mainstay in holistic medicine, the fact that silver is an infection-fighting agent that, in various forms, is highly compatible for use with the human body has been established for centuries. This fact has been scientifically proven time and time again over the last eighty years.

While medical authorities still question and actively resist silver's rightful place in medicine, regulatory authorities and organizations such as the EPA recognize silver's antimicrobial capabilities to the extent that they are seriously considering regulating its use because it is such a powerful germ killing agent.

The risks associated with colloidal silver use pale in comparison to the dangers presented by modern drugs. Side effects are extraordinarily rare, and threshold limits to avoid any type of silver toxicity have been well established by the EPA.

While controversy surrounds the use of colloidal silver, silver has long been used in allopathic medicine and in water purification processes. NASA uses silver in the space shuttle to avoid having to use chlorine in the drinking supplies. Some hospitals in Europe utilize silver-coated catheters to help prevent the occurrence of opportunistic infections. In addition wound dressings with imbedded silver nano-particles have been effective at stopping the spread of infection in burn victims.

What was thought to be the end of infectious diseases was accomplished in the 1940's. With the advent of penicillin, they were thought to be a problem of the past. It turned out that many bacteria were able to breed new and more powerful strains that were resistant to the "new" antibiotics over time. By the 1990's it was obvious that antibiotics were not going to take care of all of our infectious diseases. As a result, colloidal silver has moved back into contention as a leading remedy for improved health against microbes, parasites, bacteria, and other opportunistic infections.

### What is Meant by "Colloidal" Silver?

The term **colloid** was first used in 1861 by Thomas Graham, and is Greek for "glue". A colloid refers to tiny *particles* suspended in any medium, typically a liquid or gel. Particles in colloids are usually sized between 1 - 1000 nanometers in diameter. Colloidal silver technically does not refer to silver ions or complex compounds in ionic form (aqueous solutions, dissolved solids, etc.). Ionic silver solutions contain elements or compounds that are dissolved in water. Most colloidal silver products on the market are a combination of both silver

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colloids (elemental particles) and ionic silver (negatively charged silver ions). It has come to light in recent years that the ionic portion of the solution is the more effective at disabling pathogens.

Our manufacturer's proprietary manufacturing process has enabled us to provide highly potent ionic silver content of over 95%, making our Ionic/Colloidal Silver one of the most effective available.

### Why is Silver So Effective at Killing Pathogens?

It has been determined scientifically that colloidal silver does indeed kill microorganisms, and even disable viruses, but how does it do it? That isn't entirely clear, but researchers have theorized why it may be so effective:

1. Silver particles are an oxidizing catalyst, and as such oxidize pathogens killing them. This is how hydrogen peroxide works as well.
2. Silver interferes with the microbe's respiration, essentially suffocating it.
3. Silver ties up or disables the sulfur in the microbe.
4. Silver "shorts out" the electrostatic fields in the cell of pathogens.

### Most of the above would not apply to viruses though. Instead the possibilities for disabling viruses are:

1. Silver particles are an oxidizing catalyst and oxidize the virus therefore killing it.
2. Silver causes the virus DNA or RNA to revert back to being undifferentiated, and without the proper expression for that host is disabled.
3. Silver repairs the broken (segment of) DNA of a virus, making it complete, but no longer a functional virus, which by design has an incomplete DNA.

### The Myth of Turning Blue and Argyria

Argyria, a condition mistakenly associated with taking any silver product, is a cosmetic skin condition that is caused not by the consumption of Ionic/Colloidal Silver, but the heavy consumption of silver compounds (a silver compound is silver directly associated or chemically bonded with another element or another compound. A *compound* can have completely different properties and effects than effects associated with elements comprising the compound). The most common cause of Argyria is the consumption of silver salts, such as silver chloride, or silver nitrate. Consuming silver proteins can also be a culprit.

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Under normal conditions, silver salts/compounds are exposed to light in the skin and reduced to silver atoms. If the level of salts is sufficiently low, the atoms are swept out of the skin by the blood flow and everything is fine.

If however the level of salts/compounds in the blood is over some minimum level (due to drinking silver salts, for example) the atoms will increase in size as the silver salts “plate out” on them, growing so rapidly that they will become stuck in the tissues, turning the skin a greyish, and sometimes bluish color.

*Scientific literature has shown that consuming Ionic/Colloidal Silver at 20 to 24 parts per million concentrations and within normal, and even high therapeutic doses will not cause Argyria (skin discoloration).*

### **Ionic Colloidal Silver is Very Safe**

With the latest advances in manufacturing processes, allowing the particle size to be as little as .0003 microns, modern day ionic colloidal silver solutions are highly absorbable, easily excreted, and very safe. The body easily rids such small particles through the kidneys, the liver, by sweating, and by putting silver into hair and nails. Although side effects are incredibly rare, the most common effect would be that of a “die off” reaction in persons with a heavy pathogen load, where the effective killing of microbes due to consuming the silver causes the existing microbes to temporarily excrete toxins in a last ditch defense to stay alive. Symptoms may worsen, albeit temporarily, until the microbes have died off completely and are eliminated by the body.

Ionic/Colloidal Silver is safe and effective for children and for pets as well.

Sources:

1) Marshall Dudley-‘The Real Facts On Colloidal Silver’

2) [Silvermedicine.org/colloidalsilver101.html](http://Silvermedicine.org/colloidalsilver101.html)

3) Warren Jefferson-‘Colloidal Silver Today-The All Natural Wide Spectrum Germ Killer’

DISCLAIMER: The statements made in this document have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.