



Colloidal Silver vs Silver Sol: What's the Difference?

Are you comparing the benefits of colloidal silver and Sniper, with Silver Sol? While both have been found to be effective disinfectants and antimicrobial agents¹, it is important to become aware of the **many** differences between them.

The following chart highlights several of the differences between Sniper and other silver preparations:

	Older Colloidal or Ionic Silver	Sniper, with Silver Sol
Nature of Compound	Silver Suspension	Silver Solution
Date of Development	Late 1800's	Late 1990's
Parts Per Million (ppm)	300 - 300,000 ppm	10 ppm
Bio-Availibility	15-65%	Exceeds 99%
Vibrational Frequency	Varied	890-910 THz (same as germicidal UV light)
Works By Catalytic Action	No	Yes
# of Missing Electrons	1	2
Safety	Can Contain Impurities	Lab Tested Safe
Can Cause Argyria	Yes	No Known Cases
Color	Brown, Yellow or Silver	Colorless
Taste	Strong Metallic Flavour	Faint Metallic Aftertaste
Odor	Distince	Odorless

(Information compiled from from ² and ³.)

What is Colloidal Silver?

Colloidal silver is a liquid suspension of microscopic particles of silver⁴. Silver particles become suspended in purified water by subjecting them to tremendous amounts of electrical energy. In concentrations of 300 to 3000 parts per million (ppm), colloidal silver has been reported to kill 650 micro-organisms by disabling the enzyme that one-celled bacteria, viruses and fungi need for their oxygen metabolism⁵. Unfortunately, side effects from inconsistent and high concentrations of silver in colloidal products called for new methods of harnessing the medicinal properties of silver.

Due to the semi-popularized use of colloidal silver over the past century, most people think about older forms of colloidal silver when considering silver as an antimicrobial tool. However, Sniper, with Silver Sol Technology is very different from older colloidal silver.

Patented Technology Produces New Silver Sol

Recently-patented⁶ technology produces an engineered nano particle of silver. The specific resonance, concentration and extremely smaller particle size—in the range of 0.05 to 0.1 nanometers (with a resultant exponential increase in surface area)—provide the ability to kill pathogens by catalytic action. In fact, where “old, homemade colloidal silvers are capable of destroying one pathogen per silver particle, it takes hundreds of times more silver to do what the new silver technology can do in far less concentrations—and the new silver is absolutely safe.”⁷

Studies have shown that the Silver Sol Technology is “physically quite different in a number of inherent, measurable, physical properties from colloidal products.”⁸ In fact, Professor Rustom Roy engineered the exact nano sized elemental silver particle for maximum antimicrobial action.

Sniper, with the Silver Sol Technology is super-charged with 10,000 volts AC current versus the 110 volt DC current of typical colloidal silver preparations. The result is a vastly superior silver sol with distinct characteristics, including the catalytic properties helpful for antimicrobial use.

Study Compares the Benefits of Colloidal Silver and Silver Sol - Which Will You Choose?

Consider an intriguing comparison of Silver Sol vs. colloidal silver⁹. While one colloidal silver product was found to inhibit the growth of E. coli (bacteria that causes food poisoning, diarrhea, etc.) at concentrations of 1500 ppm, Silver Sol killed E. coli at a concentration of only 5 ppm. This makes the Sniper several hundred times more effective than comparable colloid solutions!

What is Nano Technology?

Nano technology refers to the study of controlling elements that are extremely small. This includes elements at the molecular and atomic scale, typically including items 100 nanometers in size or less.

Nano technology has allowed for the production of a silver particle so small that it can enter a single red blood cell¹⁰. This is significant because the nano-sized particle is able to travel through capillaries—the tiniest blood vessels in the body, and inactivate viruses at the cellular level. In this way, Silver Sol acts as a safe “internal disinfectant.”¹¹

More specifically, Professor Rustum Roy of Penn State University engineered a specific size of the Silver Sol elemental silver particle that resonates at 890 to 910 terahertz—the same frequency as blue germicidal lights used in hospitals for disinfection.

Common Questions About Colloidal Silver

Many people have questions about colloidal silver's effectiveness, background, and application. This is understandable, given the long history of colloidal silver and several health and safety concerns connected to older silver preparations. Common questions include:

- What are the benefits of colloidal silver?
- What colloidal silver dosage is appropriate?
- How can I buy colloidal silver?
- What are some common medical uses of colloidal silver?
- It is okay to use colloidal silver for pets?
- I've heard about colloidal silver dangers; What are they?
- How do colloidal silver and Argyria fit together?

While the Silver Sol Technology in Sniper offers an upgraded silver option in comparison to older colloidal or ionic silvers, many people still ask questions that relate to colloidal silver when inquiring about Silver Sol. Please consider the educational resources about the Silver Sol Technology which will give you a clearer view of how Sniper, with the Silver Sol Technology and colloidal silver differ.

¹U.S. Patent 7,135,195 issued November 14, 2006

²The Silver Solution, Dr. Gordon Pedersen, p. 32-33.

³A Fighting Chance, Dr. Gordon Pedersen, p. 12-15.

⁴www.wikipedia.org

⁵<http://all-natural.com/silver-1.html>

⁶U.S. Patents: 6,214,299 issued April 10, 2001; 6,743,348 issued June 1, 2004; 7,135,195 issued November 14, 2006

⁷Sound Concepts, Wellness Report, 2007 “This isn't your grandma's silver!”

⁸Congressional testimony of William D. Moeller, presented April 26, 2005, p. 2

⁹Sourced from The New Silver Solution, Kenneth S. Friedman, Ph.D., p. 16,17

¹⁰Wellness Report, © 2007, Sound Concepts, “Silver’s Attack Strategy”

¹¹The Silver Solution, CD, by Dr. Gordon Pedersen, © 2007

