

Setting Up and Using Your 1-Gallon Silva-Cap Small-Particle Generator

*First of all, we THANK YOU for your purchase from ColloidalSilverHowTo.com!
We hope we'll have the opportunity to serve you again in your quest for optimal health.*

If you have any questions, please feel free to contact us at:

robb.mcdaniel@gmail.com (the BEST way to reach us)

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Thank you for your purchase!

Below is a list of steps in using your One-Gallon Small-Particle Colloidal Silver Generator with our own Silva-Cap design. We have found that it is the simplest, least expensive, and probably the only high-capacity small-particle silver generator on the market. We use the one-quart version of this generator exclusively in producing our own colloidal silver for ourselves and our household.

Because you have purchased a generator with an air pump agitator, know that you have purchased the means to make highest-quality small-particle colloidal silver product for a fraction of the cost of other generators, and you will be able to produce very high small-particle colloid, extremely stable colloidal silver for mere pennies per quart!



Let's get started!

1. We recommend that you unpack the box, lay everything out on a table or countertop, and rinse or wash the following items: Please hand wash your gallon jar with soap and hot water, and rinse thoroughly. Please rinse the air pump hoses with warm water by wiping them down with a clean towel or paper towels. You needn't remove the hoses from the air pump to do this. (The vinyl tubing used with the air pump is NSF approved and safe immediately from the carton. We just want any residue accumulated in any process in getting the generator to you to be rinsed away.) Please also gently rinse the Silva-Cap in warm water as well. (The rigid PVC tubing extending from the Silva-Cap is also NSF approved and rated safe for contact with foods or beverages.) We also suggest that you clean the silver rods first accompanying your order by rinsing them in warm water, drying them, and then very lightly cleaning them with the green abrasive pad included with your rods. Then, wipe the rods with a clean paper towel.
2. Next, find a location to make your colloidal silver. We recommend a place, usually the kitchen, away from direct sunlight. You will want to have available to you both outlets of a standard household duplex receptacle. You will be using both outlets during production. Sometimes the air pump will make a humming vibration sound during production. You can eliminate much of the sound of the pump by placing a folded kitchen towel on the counter to set the jar and pump on during production.
3. Next, fill your one-gallon clean jar with distilled water. It's okay to fill it all the way up to the level of the jar threads where the Silver-Cap screws on. It will require almost the entire one gallon of distilled water you've purchased for production.

4. Take the Silva-Cap, and install your 12-gauge or 14-gauge silver rods from the underneath side of the cap. Install them one at a time through each of the smallest rubber supports in the cap. Push each rod through the rubber support until approximately 1/4" to 3/8" appears. Do this for all 4 of your silver rods.
5. Install the Silva-Cap onto the jar. This requires carefully lowering the lid, gathering together all 4 silver rods and both the rigid PVC air pump support tube with your other hand. Then, carefully turn the jar while holding the lid until the lid is snugly tightened onto the jar.
6. Check to make sure that the silver rod pairs are parallel to each other in the distilled water. The rubber supports will hold the silver rods in the ideal position, but check to see if you need to adjust them slightly from outside the cap.



7. Next, take the dual-outlet air pump, and one at a time, gently push the end of each of the vinyl tubes through each of the PVC air tube supports in the Silva-Cap. Push the vinyl flexible air tubing downward all the way through the rigid tube until approximately 1" of the flexible tubing is visible beyond the rigid tube inside the jar of distilled water. (This will direct the air bubbles away from rigid tubing so that water does not bubble up through the rigid tubing during production, which will create splashing outside the jar.) You will notice the air flow adjustment knob on the face of the air pump. I recommend that your air flow setting be turned between the medium range setting and the high setting. You want to generate as much agitation

as possible to ensure constant agitation of the gallon of distilled water, but not so much agitation that splashing occurs during production.

8. The 2nd pair of outlets on the Silva-Cap is to allow air generated by the air pump to escape. So these are to be left open and free of obstruction.
9. Take the 24-volt transformers, and one at a time, remove the cord tie and stretch out the cord with alligator clips so that you can work and move your jar unencumbered. Then, take the two colored alligator clips and apply them to the ends of one pair of the silver rods visible above the surface of the Silva-Cap. It does not matter which colored clip attaches to which rod pair. Just secure the alligator clips to one pair of silver rods on one side of the Silva-Cap, and then attach the alligator clips from the 2nd transformer to the 2nd pair of silver rods.



10. Next, release the surge-protected power strip cord from its cord tie and stretch out the cord. Lay the power strip flat, and plug the 2 transformers into the power strip. .
11. Plug the power strip cord into the lower receptacle of your standard household duplex receptacle. By plugging into the lower receptacle, the top receptacle will be free for the air pump plug.
12. Plug the air pump cord into the upper receptacle. Also, unwrap the cord so that you have room to move your jar and adjust the location of your pump if you need to.

13. After you have checked that the air pump is working properly, that the vinyl air tubes are secure and that air bubbles are pumped into the water and not splashing up the rigid support tubes, that the pairs of silver rods are parallel in the jar, you may carefully lift the jar and

place it on the folded kitchen towel to reduce noise. Gallon jars are cumbersome and heavy, and only move the jar if you feel you need to. Then place the pump on the towel near the jar. You'll notice quite a reduction in sound.

14. You're now in production mode! I would suggest you that produce your small-particle colloidal silver for 4 to 5 hours. At 4-1/2 hours, in our tests, you will have a product that is 25ppm to 26ppm of nanoparticle

content, and 15ppm to 16ppm ionic silver. Note that the longer your production times, the faster your relative silver content will increase. For example, if you allow the generator to produce for just another 30 minutes, your relative silver content reading will change to 18ppm ionic silver and to 30ppm of particle silver content.

15. At the end of the production period, know that you have produced an extremely high-quality, high-colloid product that is as stable and effective as virtually any colloidal silver product available commercially today.
16. When you have finished production, simply unplug the air pump agitator and the power strip cord from the wall receptacle. Remove the alligator clips from each set of silver rods. Pull the 2 air tubes out of the Silva-Cap. Dry off the air tubes, wrap the tubes around the air pump, and set aside. Unscrew the Silva-Cap from the jar by turning the jar beneath it and not the Silva-Cap. When the Silva-Cap is free, raise the cap up and out of the colloidal silver. Lay the cap, with the silver rods still installed, on a clean dish towel or paper towels.
17. Remove the silver rods one at a time from the Silva-Cap, pulling them out of their support holes from underneath. When all the rods have been removed, wipe each rod down with a clean paper towel one at a time. You will notice that 2 or possibly all 4 rods now have a matte finish (have lost their shine). And during longer production times, you will notice that the 2 rods with the black alligator clip attached will more than likely have a gray coating on them. This coating is merely silver oxide. Silver oxide is a harmless by-product of producing colloidal silver with low-voltage electricity. (See more comments regarding silver oxide below.) Take the green scrub pad that came with the silver rods, and gently buff the rods. You can easily do this by holding to the shiny end of the rod (that was pushed through the Silva-Cap), gently wrap the buff pad around the rod, and pull the rod through the pad to restore much of the shine. Do this once or twice to prepare the rod for the next production period. Then wipe each rod with a dry, clean paper towel. I suggest that you place the silver rods back into the Ziploc bag with the scrub pad, and after cleaning and drying your production jar, roll up the bag containing the silver rods, and store them in your production jar.
18. Next, simply take the power strip containing the 2 transformers, along with the air pump with tubes, and store them in your canvas storage bag provided until your next production period.
19. When your production period is over, we recommend that you pour your finished colloidal silver through a funnel lined with 2 coffee filters (to capture any silver oxide that became free during production), and store your colloidal silver in glass jars or approved, safe PET amber or cobalt blue containers. Then, hand wash and dry your production jar, and store with the power strip and transformers, and air pump with air tubes, until your next production period.

Below are some general comments and Frequently Answered Questions about our process:

Things you can expect using this production system that might differ from your previous experiences:

Because you are agitating the water you are creating high small-particle silver content in your colloidal silver, and dramatically reducing the amount of ionic silver in your product. And you will not see the following occur during production:

—You will not see a cloud of silver ions coming off the positive rod (because the water is agitated)

—You will not see air bubbles coming off the positive rod until far into the production process (approximately 2 hours or more)

—You will more than likely not see the negative rod turn black until well into your production period

—You will not see an amber color. My experience tells me that the amber cloud is composed of large clusters of particles, making it less effective. Your colloidal silver is powerful, and usually clear and will remain clear and very stable over time. To acquire a “color,” something close to what I call a “champagne” hue, and thus a much higher level of small-particle colloids, simply extend your colloidal silver production time.

—As a result of the absence of some of the above up till now “normal” indications of colloidal silver production, some people do not feel that the generator is working properly. There’s no ion cloud, there’s no black rod, there’s no air bubbles, there’s no yellow to amber color. Please know that none of the absences of these things are inhibiting the quality of your colloidal silver. Quite to the contrary. Prior to wondering if the

generator is working, please make a batch of colloidal silver for 4 to 5 hours. Then, use the laser pointer in a darkened room shining horizontally across the solution. You will see a dense, translucent beam of light across your finished product after approximately 4 hours. Then beam will grow in density with even longer production periods. What you are viewing is an extremely high-quality batch of small-particle colloidal silver. I urge you to review the processes, outside independent tests, and results of this process on the website: www.ColloidalSilverHowTo.com, and click onto the FAQs: Production page.

If you've read my website information, you will notice that I am not a big fan of TDS meters because they are incapable of measuring true colloids. TDS meters for the most part are designed to measure "impurities" in tap water. You are generating true suspended colloids, and some ionic silver. Off-the-shelf TDS meters purchased from water purification retailers, after 4 to 5 hours of production, might only provide you a TDS meter reading of as little as 4ppm! The Hanna PWT meter, measuring ions, will provide you a reading of 15ppm to 16ppm of relative silver ionic content. Tests of this same product place the micro-particle, colloid content at 26ppm to 30ppm. You will soon find through use and experience that your small-particle colloidal solution is EXTREMELY effective in treatments, and EXTREMELY stable over time. (Even after 8 or 9 months, my colloidal silver has remained clear, and provides me with the same readings as the day I made it). So please: **Do Not rely on a TDS meter to judge the effectiveness of your colloidal silver.**

How long will it take to produce colloidal silver using the 24-volt transformers?

Generally, I make a very nice, clear and stable batch of colloidal silver in approximately 2-1/2 to 3 hours. Some people produce for longer periods of time, and some for shorter periods. With your purchase I include a laser pen light. In the beginning, I suggest that you check your colloidal silver every 30 minutes or so after the first 2 or 3 hours with the laser. Watch for a dense, translucent beam of light when shining the laser through the jar of water. Unplug your pump to check progress. Allow the water to calm, and be sure to check with your laser in a darkened room. The longer your production period, the denser the laser beam becomes.

Your production periods should produce the following colloid parts per million results:

- * 2-1/2 hours production time: 12ppm (Commercial, retail level of colloidal silver products. I use this level of ppm when I take CS orally as a daily mineral supplement.)
- * 3 hours production time: 20ppm
- * 3-1/2 hours production time: 32ppm
- * 4-1/2 hours production time: 45ppm
- * 5 hours production time: 60ppm (This is the level of colloidal silver I use in oral and nasal misters because I experience better results. I also use this level of ppm when I am aggressively fighting off an affliction.)

For higher ppm concentrations, simply produce your colloidal silver for longer periods of time.

Know that using an air pump to agitate the water during production, you are making a very stable, high colloid form of colloidal silver. It will continue to remain in a colloidal state (never turning yellow or amber with age and never losing effectiveness) because particles are remaining suspended throughout the life of the product.

I see gray "gunk" beginning to form on one of the rods of each pair. Should I be concerned?

During the course of production, it is not unusual to begin to see a gray coating forming on the negative silver rods (those that have the black alligator clip attached to them). This is simply silver oxide, is harmless, and is a by-product of producing colloidal silver with electricity. Use of electricity is the only method available to produce colloidal silver at home. Know that if you are producing 12ppm level colloidal silver, you will probably only see a light "graying" of the negative rod and little or no silver oxide. For longer production periods, more silver oxide will form until you may even see some of the mass break away and float in your silver solution. This is nothing to become alarmed about. At the end of a long production period, after you have wiped your silver rods clean, gently buffed them and put them away, pour your silver solution through a funnel lined with 2 coffee filters into your clean storage containers. This will capture most all the silver oxide formed

during production. As a tip: You may allow your colloidal silver to sit / rest for 2 or 3 days. Silver oxide is heavy, and fine particles of silver oxide that may not have been trapped by the filters after production can settle to the bottom of your storage jar. Simply pour this solution through 2 more coffee filters if you find silver oxide has settled. You will notice that the settled silver oxide will usually remain in the bottom of the original jar, and can be cleaned easily with soapy hot water.

Know also that the presence silver oxide does not affect your silver nanoparticle reading, nor your ionic silver readings. Because there was some controversy regarding the presence of silver oxide and its possible influence on particle readings, we allowed our own colloidal silver to rest for 15 days prior to lab testing. So know that you will get the same readings immediately after production that you will get weeks and months after production. Agitating the water with an air bubbler generates a completely stable and effective end product.

Should I filter my colloidal silver solution after production? (Also see above)

I always filter my colloidal silver after production. I simply use a clean kitchen funnel (plastic), put in 2 standard coffee filters, and pour my colloidal silver through the funnel and filter into a clean jar for storage. I use all glass jars when I produce and store my colloidal silver, but PET pharmaceutical grade bottles have proven to be a safe method of storage. For the One-Gallon Generator, I suggest you request the assistance of another person to hold the filter-lined funnel and storage containers while you pour. Especially, with the first half of your product, find someone to hold the storage container and funnel securely while you slowly pour the finished product through the filter lined funnel.

How much colloidal silver should I consume?

I use colloidal silver as a nutritional supplement, to enhance the level of health in my body by better enabling my body to care for itself. Therefore, during the summer months, I hardly take colloidal silver at all because (fortunately) I and my household are generally quite healthy. During the fall, winter and spring months, I generally take 1 Tbl. of the 12ppm colloidal silver per day, especially when I become aware that there are colds and flu in the air. I then increase dosages and numbers of dosages throughout the day if I feel that I am possibly becoming ill. For children, the general consensus is that they take half the adult amount. But as always, for recommendations on consumption amounts, please consult your natural health practitioner.

Most often, though, I now take colloidal silver via a nasal mister and inhaler mister. These methods provide me with superior protection over time, and require that I make colloidal silver far less often. This also means that I am producing less colloidal silver than before, and therefore my silver rods are lasting even longer!

Are there any negative side effects to consuming colloidal silver?

Frankly, in the dosages described above, over the years I have consumed colloidal silver, I have encountered no ill effects. The “blue man” syndrome we’ve all been frightened into believing is a risk can only be experienced, from my reading and personal use, if you produce colloidal silver 100x stronger, and consume upwards of 1 quart to 1 gallon of this super-strong solution per day for long periods of weeks and months. There is also evidence that persons adding salt or saline to their water during production are generating extremely large amounts of silver chloride, which can be harmful in large doses, and is thought to create the “blue man” syndrome. So I don’t recommend using salt or saline during production.

However, with that said, I do recommend that you begin your colloidal silver regimen with the lowest ppm product (12ppm) and, if you are taking colloidal silver as a mineral supplement, stay with this ppm level for a while until you find yourself requiring or needing more to achieve the results you desire.

If you experience ANY negative side effects that you feel might be related to the consumption of colloidal silver, immediately stop its use and contact your natural health professional for advice. Negative side effects are virtually non-existent, but possible. So responsibly begin colloidal silver in low ppm colloid densities and increase densities and consumed amounts gradually.

Are there any other uses for colloidal silver?

I use colloidal silver for many things. When I have sinus issues, and feel a sinus infection may be on its way, I put colloidal silver in a mister bottle (available on our site), and spray each nostril 6 to 8 times every few hours until the symptoms go away. I spray colloidal silver on scrapes, cuts and sunburns to eliminate inflammation and infection. The uses are endless!

*For additional answers to frequently asked questions,
please be sure to return to our website:*

www.ColloidalSilverHowTo.com

Then go to the FAQs: Production page.

We're always updating and adding information to the website.

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I hope we hear from you again in the future!

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