



Colloidal Silver Generator
Model Optima1228

Congratulations!

You have just acquired one of the highest quality colloidal silver generators available on the market today.

Your new IFC/Barbequia colloidal silver generator is easy to use and maintain and it will produce high quality ultra-small particle colloidal silver solution for years to come. Your new colloidal silver generator will pay for itself after producing a few batches of colloidal silver.

Design features

- AC power source
- built in voltage booster which allows for versatile power options – Any 12-volt power source can be used (vehicle battery, solar cells, etc.)
- Simple to use
- Micro Particle Current Limiting Technology (set at 2 milliamperes) – will not produce large particles or “burn” the batch.
- Makes a quart of high-quality colloidal silver at a time.
- Capable of making 1-gallon batches at a time.
- 1-year warranty.
- Easily exchanged electrodes allow for use of any source of pure silver.
- Optimum DC output voltage and current for producing high quality crystal clear colloidal silver.

Instructions

In order to start production of high-quality colloidal silver, you will need to follow these simple steps:

1. Find a place where you can set up where pets and children will not be able to disturb the process or contaminate the solution.
2. Thoroughly wash a wide mouth 1 quart mason jar and rinse completely.
3. Rinse the jar one more time with distilled water.
4. Fill the jar with distilled water leaving it about ½” to 1 inch from the top of the jar.

5. If you are using an air pump for agitation (stirring), place the air hose with a clean bubble stone in the distilled water and turn on the pump. A rubber band around the neck of the jar will help hold the air line in place. If you are not using air agitation, continue to next step.



6. Place the silver electrodes in the jar attached to the rim so that they do not touch the sides or bottom of the jar nor each other
7. Connect the alligator clips to the silver electrodes. Do NOT allow the alligator clips to touch the water as the metal in the connectors can also electrolyze and become part of your solution contaminating the batch. ONLY the silver should ever touch the water.
8. Avoid allowing the electrodes to touch each other as this can cause damage to your unit. However, we have a built-in safety circuit for short-circuit protection.
9. Plug the unit in – the light on the power supply will glow indicating that the unit is working.
10. Cover the jar with a piece of plastic wrap to keep bubble splash contained and dust and other contaminants out.
11. In about 10 to 24 hours depending on quantity processed, (1 qt = +/- 10 hrs.) you will have a high-quality batch of colloidal silver at around 10ppm.

Important Notes

The optimum concentration of colloidal silver particles is 5-10 ppm (parts per million) for normal use. Most laboratory testing on pathogens is done with 5 ppm solution.

There are many factors that affect the amount of ppm generated over a specific period of time – surface area of electrodes, water volume, water temperature, water purity, voltage, current, agitation, etc. This means that when you make a 1-quart batch and brew it for 24 hours, the results in ppm may vary from previous and subsequent batches. The only way to know exactly what concentration you have is to use a TDS meter (Total Dissolved Solids).

It is normal for a film to accumulate on the electrodes and one will have considerably more than the other. This can be removed by slowly removing the electrodes from the water and wiping them with a paper towel.

If some of the residue falls into the solution as it commonly does, you can pour the solution carefully into an opaque glass container for storage leaving the residue in the bottom of the jar to be discarded or you can filter the solution through an unbleached coffee filter. Using a hose to siphon the solution from the jar to the storage container can be useful and convenient.

The residue is neither beneficial nor harmful but not very aesthetically pleasing either.

After you have made a batch, wipe the electrodes with paper towel and then with a Scotch-brite type fiber to restore the luster of the silver electrodes before using them again.

Water temperature affects process time. The warmer the distilled water, the faster the electrolysis process will go. A clean aquarium heater can be used to speed things up. Room temperature is fine but cold temperatures will dramatically slow the process.

Never, ever add any salts or proteins to speed up the electrolysis process. The only ingredients in colloidal silver should be distilled water and pure silver.

We recommend storing your colloidal silver generator in a plastic storage bin or the case that comes with the Optima2 Deluxe kit for convenience and protection to the electrodes.

If you have any questions or need assistance with your new unit, contact the distributor you purchased it from or email us at info@ifcww.com

Thank you for purchasing an IFC/Barbequia Colloidal Silver Generator! We hope you enjoy the many benefits of making your own high quality colloidal silver!