

# How to Make CDS Water, the World's Most Powerful Germ Killer & Disease Eradicator at Home ~ For Next to Nothing



From [Ken Adachi](#).

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## Latest Updated Notes

**Sept. 4, 2020** - A great deal of censorship and suppression of information, testimonials, and videos about the therapeutic benefits of MMS and CDS Water has taken place since this article was first posted. Google and allied search engines, have modified their algorithms to either completely eliminate articles which are favorable to MMS/CDS or change their ranking so that they only appear on page 15 of the search results. Youtube has removed hundreds of video testimonials from Mark Grenon of the Genesis II Church and other websites and blogs which contain personal testimony to the remarkable ability of MMS/CDS to safely oxidize pathogens, parasites, toxins, fungus, bio-film, and mold - which renders them harmless - thus resulting in an alleviation of health debilitating conditions.

This suppression is a direct result of the growing awareness around the world in the past 10 years of MMS/CDS and its fantastic therapeutic capabilities. Big Pharma, the FDA, organized medicine and their obliging attack dogs in the Ministry of Mainstream Media Misinformation have waged an unrelenting propaganda campaign that has intensified greatly since 2018 on radio, TV and the internet to vilify and demonize MSM (a "dangerous bleach"), its vendors, its champions (currently Mark Grenon & his sons who were arrested on Aug. 12, 2020) and any website or Facebook page, or Youtube channel which advocates for its use. The simple truth is that as more and more people came to realize just how well MMS and CDS worked to safely and effectively disable the pathogens and toxins that are involved in the development of chronic health conditions, AND that they no longer needed to go to the doctor's office; nor have those expensive prescriptions filled, they came to realize what I realized more than 40 years ago ~ conventional, allopathic, mainstream medicine is a racket, designed to continually milk you for your money while only addressing your symptoms, but never curing you of anything.

Therefore, it's the *loss of profits* for Big Pharma, organized medicine, and the BILLIONS that mainstream medicine conglomerates earn from pharmaceutical advertising that is at the heart of the issue. The FDA and their bosses in Big Pharma don't care about your well being, safety or longevity. They never have. They care about profit and the power & political influence which those profits bring to them. Organized medicine wants to continue to destroy and cripple your health with pharmaceutical poisons while convincing you that you can't live without them or their buddies in the 'health' insurance racket.

Many countries outside of the USA have now forbidden the sale of ready-made MMS solutions (meaning a bottle of sodium chlorite solution and a bottle of 50% citric acid solution). However, you can still legally obtain the dry ingredients used to make sodium chlorite and citric acid solutions, by adding the water yourself in the stipulated amount and make your own solutions of MMS for about **50-60% LESS** than if purchased ready-made. [Send me an email](#) if you'd like more information on obtaining pre-measured bags of dry ingredients and the **CDS Production Rig** if interested in making your own CDS water as explained in the article seen below. ...Ken

## April 8, 2018:

**Preface**  
I recently discovered a more accurate way to measure the **ppm percentage concentration** of my **Sodium Chlorite Solution** by weighing a given volume of the Sodium Chlorite Solution with a sensitive digital scale. And to my surprise, I discovered that my previous **extrapolated** percentage quotes, presented in earlier updates to this article, were stated far too high. So I've now revised these notes to reflect a more accurate ppm percentage of the Sodium Chlorite solution concentration (if you are reading this page for the first time, what is being explained in this updated note will make more sense to you after you've read the entire article, so don't worry about it if you don't comprehend everything at this point).

1) When Jim Humble originally talked about MMS in his books, videos and articles from 2005 forward, he said his Sodium Chlorite solution was "28%" However, it was later realized that the sodium chlorite flakes he was using to make the solutions from were a mixture of **80% sodium chlorite**, plus 20% of other inert salts including sodium chlorite (ordinary table salt). This mixture ratio is *intentionally* maintained by the manufacturer of sodium chlorite flakes in order to **keep the flakes as stable as possible** for shipping safety and for longer shelf life. So the correct concentration description of Jim Humble's sodium chlorite solutions should be "**22.4%**" and not 28% as he was stating prior to 2011 (Jim Humble has been correctly calling it **22.4%** since roughly 2011 forward).

For a couple of years, I was using Jim Humble's original formula to make **22.4%** Sodium Chlorite Master Solutions.

2) However, I wanted to produce **500ppm CDS Water in 30-40 minutes** using an aquarium air pump, rather than run the whole process for **1.5 or 2 hours**, so I **increased** the percentage (%) concentration of the Sodium Chlorite solution to **24%** by adding only **6 oz.** of distilled water to my 12 oz bag of Sodium Chlorite flakes (weight = 120 grams), instead of adding 9 oz. of distilled water recommended on the bag's label (9 oz. of water + 12 oz bag of Sodium Chlorite flakes will produce a standard **22.4%** Sodium Chlorite Solution). **24%** Sodium Chlorite solution produces a **substantially more concentrated ppm** of chlorine dioxide gas - in a given space of time - than does 22.4% Sodium Chlorite solution.

3) By adding **24%** Sodium Chlorite Master Solution, plus an equal amount of 50% Citric Acid Solution in the Mixer bottle, I can produce 500+ ppm of CDS Water, using an aquarium air pump, in about **30-40 minutes**, provided that I maintain the water bath surrounding the Mixer bottle, with **boiling hot water**, changed every **10 minutes**, to keep the water bath as hot as possible.

4) You can produce CDS Water in any **ppm concentration desired**. If I wanted to only make **100ppm CDS Water**, then I would use a **smaller** amount (E.g. 1/4 or 1/2 oz. in the Mixer bottle) of **22.4%** Sodium Chlorite solution and run it for a **shorter** time, until the CDS Water tested at 100ppm. However, I prefer to make two quarts of **500+ppm CDS Water** to store in the refrigerator, so I can dilute a small portion of the 500ppm Master solution down to one quart (32oz) of 50ppm which I can drink over the next 4 days on an **hourly basis** (8 consecutive hours, at 1 oz = 8 oz daily).

**To dilute the 500ppm solution**, I'll take **3 oz of 500ppm** and add **29 oz of distilled water** = 32 oz CDS at 50ppm

(or Add **1.5oz** of 500ppm to **14.5 oz** water = 16 oz CDS at 50ppm)

I prefer to ingest CDS Water in the **50ppm** range, but you can go down to 20ppm (many people do) or go up to 75 or 100ppm without feeling an aggressive oxidizing action in the mouth. However, if you go up to 150 or 200ppm (or higher), you will **definitely** notice the oxidizing intensity in your mouth if you hold it there for a few minutes. CDS Water works better if taken at a **low dose** (1 oz), at a **low ppm** (20 -50ppm), and on an **hourly interval** for 8, 10, or 12 hours daily.

The idea is to take enough to kill off bugs **slowly and steadily**, rather than getting sick or a headache from rapid die-off waste products. For nemas, you can use a higher ppm of CDS Water.

End of update notes]

## How to Make CDS Water

**Pavel Eiselt Demonstrates How to Make CDS (Dec. 2011) Andreas Kalcker Narrates**

CDS stands for **Chlorine Dioxide Solution**. Chlorine Dioxide is a greenish-yellow gas that readily dissolves in water. We release this gas from a solution of **Sodium Chlorite** (now called **MMS1** by Jim Humble) by "activating" it with an equal amount of **50% Citric Acid** solution inside a glass **Mixer bottle**. We then screw on the Mixer bottle's plastic lid which has two holes drilled in it to accept two lengths of **1/4 inch tubing** (silicone tubing is ideal, but vinyl tubing is okay). Each tubing length is only inserted a short distance (E.g. 1/4 inch) inside the Mixer bottle lid (I use a thin bead of *Goop* to seal where the tubing enters the hole so the tubing can't be easily pulled out of the lid and holds a tight gas seal).

One length of tubing is **24 inches** (66 cm) long which I use to blow air (by mouth or with an aquarium air pump) into the mixer bottle which will then force the chlorine dioxide gas coming off the activated Sodium Chlorite solution to vent into the **second length** of tubing which is inserted deep into my **first bottle of distilled water** (through a hole in the screw-on cap which I've marked as "A" in the photos seen below).

A second hole is drilled in the cap of water bottle "A" to accept a 1/4 inch length of yet another tubing which is then inserted through a hole in the cap of water bottle "B" and extended to a length of 6-8 inches to deliver the gas to bottle B. I also drilled two holes in the cap of bottle "B" and allow the second hole to act as a vent for the air/gas mixture. If I wanted to make a **third bottle** ("C") of CDS Water, I would then install **another length of tubing** in the 2nd hole of cap "B" and run that tubing through the cap of bottle "C" (extended 6-8 inches deep) and leave the 2nd hole of cap "C" open to vent the air/gas mixture.

(Making two quarts of **500ppm CDS Water** at one time is more than enough for my purpose. If you consume 1 oz of 50ppm CDS Water each hour for 8 hours per day, you will use up 8oz daily (or 4 oz daily if you only drink 1/2 oz hourly). Therefore, **one 32 oz quart** bottle will last you **4 days** (or last you 8 days if drinking 1/2 oz hourly) and **2 quarts will last 8 days** (or 16 days if drinking 1/2 oz hourly).

I'm using **one quart** (one liter) plastic bottles made of translucent HDPE when making my CDS Water with the CDS Production Rig. HDPE is much safer than clear PET bottles. Some people use clear PET bottles to hold their CDS water, but clear PET bottles will leach chemicals into any water, and more so into distilled water or CDS Water. Therefore, it's preferable to use translucent HDPE bottles for making CDS and *then* store in a **glass bottle** - with a **screw-on plastic cap** - in the frig (do NOT use a metal cap).

After we're done infusing our bottles of distilled water with chlorine dioxide gas, we're going to unscrew the caps, remove the CDS rig and pour our CDS Water into **glass quart bottles** and store in the refrigerator. It's OK to use clear glass bottles since the frig is dark when the door is closed. If you don't cap your bottle of CDS water, it's going to turn completely clear within a few hours, since the chlorine dioxide gas will escape into the air from the top of the bottle (if you allow it to).

Over many 3-4 months (12-18), CDS Water that's at **500 ppm or lower** concentration will gradually come out of solution, even in a glass bottle kept in the refrigerator. The hue of the yellow-greenish color will gradually begin to fade after 3-4 months in the refrigerator. [CDS Concentrate](#), on the other hand, at a concentration of **3800 ppm**, will last substantially longer in the frig before beginning to lose its strength (12 months).

## The Low, Slow & Steady CDS Water Protocol

People who are trying to address a health problem will get better results by drinking a **small amount** (1/2 - 1 oz) of CDS Water at 25-50 ppm, **every hour** for 8, 10, or 12 **consecutive** hours each day, rather than consume a large amount, at higher concentration, once or twice a day. I keep a digital timer in my pocket for 60 minutes to let me know when I need to take another swig from my 16 oz clear glass CDS Water bottle, which I keep near me. I will often let the CDS Water remain in my mouth as I swish it around my teeth and gums for a few minutes before swallowing. This will clean your teeth and gums like you cannot believe and rid your mouth of most germs which can cause gum and teeth infections. If you currently are having trouble with gum, mouth, or a few teeth infections, you're going to be very pleasantly surprised to notice the improvement in your oral health by swishing CDS Water frequently throughout the day. CDS is a truly amazing oxidizer-disinfectant which will knock down just about every pathogen in the book, yet it's incredibly benign and gentle to the body.

(You should read [The Basic Science of MMS](#) to understand *how* and *why* **Chlorine Dioxide** works as well as it does:  
<https://educate-yourself.org/mms/chlorinedioxidebasics04sep12.shtml> )

Here's my step by step procedure for making CDS water using the Air blow method:

## Preparation

You need 4 things:

- A) 22.4% or 24% Sodium Chlorite solution,
- B) 50% Citric Acid solution,
- C) Distilled water, and
- D) a CDS production "rig" consisting of a mixer bottle, 3 or 4 lengths of 1/4 inch tubing, and 1 or more quart-size HDPE plastic water bottles with screw-on plastic caps.

**A) A 22.4% sodium chlorite solution** can be purchased ready-made from internet vendors and can be used to make CDS water, however, I prefer to make my own **Sodium Chlorite** Master Solution at home (See ["Ingredients for making CDS water"](#) at the end of this article).

I make my own 24% Sodium Chlorite solution by adding only 6 ounces of distilled water to exactly 120 grams of Sodium Chlorite flakes. This will yield a little over 8 fluid ozs. of 24% Sodium Chlorite Master Solution which I keep in a brown glass, Boston Round 8 oz. bottle in a kitchen cabinet (The formulations found on the internet for making different concentrations of sodium chlorite is based on **weight** in ounces, and not **volume** in fluid ounces as I am describing here. My **12oz. Dry Ingredients Combo Kit** (more info below) formulation will yield about 12 oz. in **weight**. This is my **Master Solution** bottle which I will label "24% Sodium Chlorite" and store in my kitchen cabinet. Originally, I filled up a 1 or 2 oz. amber glass dropper bottle and counted out drops to make the CDS Water, but I no longer count out drops. I now use a **1/2 oz. paper cup** to measure out **1/2 oz., or 1 oz. or 1.5 oz.** of each Master Solution and pour into the Mixer bottle.

**B) I make the 50% Citric Acid solution** by adding equal amounts of citric acid powder and distilled water. For example, if I want to make a 12 oz. (by weight) master solution of 50% Citric Acid, I'll mix 6 ozs. (170 g.) of citric acid crystals with 6 ozs. (170 ml.) of distilled water and store in a brown Boston Round glass bottle marked "50% Citric Acid Master Solution".

**C) I purchase Arrowhead or Sparkletts** distilled water from the supermarket here in southern California because I know **with certainty** that the water is 100% distilled and free of minerals (I tested it many years ago with a TDS meter). If you buy a well known national brand of distilled water, it will likely be 100% distilled, **but** if you buy a **local** market, unknown brand of water marked "distilled", it **may not be** distilled at all ( I tested that too). Stick with a **national water company** brand or get a TDS meter to check whether your local brand of distilled water is truly distilled or not.

I fill my two "A" and "B" 32 oz. plastic bottles with distilled water up to within one or 2 inches of the top. I want to leave a little head room for the chlorine dioxide gas to expand into the first bottle of water. You can start making your CDS Water right away **or** you can refrigerate the two quart bottles for 2 hours before making CDS Water, because **cold water will absorb much more chlorine dioxide gas than room temperature water**.

(After I finish making my CDS Water, I will pour the MMS from the Mixer bottle into a larger glass bottle, fill it to the top with water and store it in the frig. This is labeled "**MMS Water**" which I use as a **sterilizing agent**, adding one ounce to a basin of water in which I'm soaking newly purchased vegetables or fruits (after I had washed them 3 times with hot water). You can also add an entire bottle or two of MMS Water to **bath water** and soak in it for 20-30 minutes. The sterilizing action of the MMS Water will rid the skin of infective conditions including acne, psoriasis, boils, toenail fungus, etc. Laying in the tub, I put the back of my head into the bath water covering my ears (for 10 - 15 minutes) so the MMS goes into the ears and works on ear wax or any infection one might have in the ears.)

**D) The CDS Production Rig** includes 3 or 4 lengths of **1/4 inch silicone tubing** (which you can buy from a store that sells aquarium supplies or from the internet), one, two, or three quart (liter) size HDPE plastic water bottles with screw-on plastic caps, a **glass Mixer bottle** with a screw-on plastic lid. I use amber glass supplement/vitamin bottles for my Mixer bottles. They come in many different sizes, but the **7 oz. size** is convenient (see photo above). I wanted a bottle size that will fit inside a large size coffee cup or better yet, a **deep ceramic or glass bowl** which I will half fill with boiling hot water to serve as a **hot water bath** in which I'll half immerse the Mixer bottle while making my CDS Water (more on this later).

## Drilling holes in the plastic lid

You are going to drill **two holes** in the lid of the Mixer bottle and in the plastic caps of your water bottles. If your water bottle cap has an inner peripheral ring of plastic that seals the bottle from spillage, then keep your two holes in the **center portion** of the cap and not drill through the inner peripheral plastic ring. "1/4 inch" tubing usually refers to the **outer diameter** of the tubing, so a **1/4 inch drill bit** will allow the tubing to easily fit into the hole. If you want to make the hole a little bit tighter, especially if you are using 1/4 inch silicone tubing, you can use a **15/64 drill bit** and still push the tubing into the hole with a little bit of force. I use a bead of *Goop* all around the tubing where it meets the hole to fasten it tightly to the inside and outside of the cap so it won't easily pull out. The **first length** of tubing that fits into the Mixer bottle cap is the **24 inch long** "blower" tube. The **second length** of tubing has to be long enough to go from the Mixer bottle into the bottom of your first water bottle. I made mine **22 inches long**, but you can make yours a little longer if you want. I made my **third length** of tubing **18 inches long** because I only have to travel from bottle "A" to bottle "B" which are both standing right next to each other. If you want to make **three bottles** of water at the same time, then drill a second water bottle cap with two holes and add a **4th length** of tubing cut **18 inches long**. I now use a double drilled hole bottle cap in my last bottle of water, even though I only have one tube going into the cap, to keep the water inside the bottle (if filled almost to the top) from splashing out.

## Mixing the two solutions

When I first started doing this, I used to measure out 10, 20, or 30 drops at a time, but I now just fill a 1/2 oz paper cup of **24% Sodium Chlorite solution** and a 1/2 oz. paper cup of **50% Citric Acid** into the Mixer bottle for a medium strength solution up to, say 250 ppm. If I want to make a really strong CDS solution of 500 + ppm, I'll measure out a full 1.5 oz. of each solution into the Mixer bottle (the reaction will start immediately to liberate chlorine dioxide gas **so cap the Mixer bottle quickly** as soon as you pour in the second solution to avoid breathing the chlorine dioxide gas). I then screw on the Mixer bottle plastic lid with the two lengths of tubing and place the mixer bottle into a coffee mug or deep bowl that is half filled with boiling hot water. I then **elevate** the coffee mug and Mixer bottle combo with a stand (or box) so that it stands **higher** than the two water bottles, otherwise the water from the water bottle could **back flow** into the **Mixer bottle** (when not blowing through the blower tube) if you place the Mixer bottle at the same height as the water bottles (the hot water from the water bath will cause the chlorine dioxide gas in the Mixer bottle to produce at a much faster rate than if left at room temperature).

After waiting a minute or two for the chlorine dioxide gas to build up in the Mixer bottle, I'll blow on the blower tube and force the gas to percolate through the water bottles (or I'll attach an **aquarium air pump**). If I blow by mouth, I keep my tongue on the blower tube while inhaling or preparing to blow into the tube so the chlorine dioxide gas won't come back into my mouth (I want to avoid breathing the gas, which can be unpleasant). It doesn't take long before you start seeing the water turn a greenish-yellow color. The longer you blow the chlorine dioxide gas into the water bottles, the deeper the hue becomes you can also use a **small aquarium air pump** to do the blowing for you if you want to make a highly concentrated solution of CDS. Let the pump run for 30 minutes, but **keep the bath water surrounding the Mixer bottle boiling hot** so the gas will keep coming off readily).

After my first water bottle "A" has a nice deep yellow-green color (see photos below), I'll reverse the position of the two water bottles, so that now bottle "B" will get the first gas coming off the Mixer bottle and bottle "A" will get the secondary gas coming from bottle "B". When the color of bottle "B" is the same as bottle "A", I'm done. I can usually tell from the intensity of the green/yellow color when the bottle has reached about **500ppm** or more, but to be sure, I'll test the ppm concentration of the chlorine dioxide gas by using the [InstaTest Analytic High Range Chlorine Dioxide test strips \(#3002\)](#) made by **LaMotte**.

I'll remove the tubing from both water bottles, and pour my CDS Water into glass quart size bottles with plastic screw-on caps and store in the refrig. If you have kids or older people in the house, label each bottle as "CDS Water." I then remove the Mixer bottle from the coffee cup and pour the leftover MMS mixture into a larger glass bottle marked "MMS Water," fill it to the top with water, and keep it in the frig to be used as a sterilizer for veggies, fruit, or meats.

I then shake out the tubing of my CDS production rig to remove water and store in a large plastic zip lock bag.

## Dry Ingredients for making CDS water

You can make your own Sodium Chlorite and Citric Acid solutions by mixing the dry ingredients yourself with warmed distilled water, and save about **50%** off the cost of purchasing ready-made MMS solutions from vendors. Send an [email](#) for more information on obtaining **pre-measured 12 oz. MMS combo kits** of Sodium Chlorite flakes and Citric Acid powder (enough to supply one person for about 12 months, if drinking a total of 8 ozs of CDS water daily). You can also obtain a ready-made **CDS Production Rig**, along with a set of labeled **8 oz. or 16 oz Boston Round Master Solution bottles**, and the **LaMotte** chlorine dioxide **test strips** if desired.

## How to Make 500ppm CDS Water in 30-40 Minutes w/ 24% Sodium Chlorite Solution

I found that by increasing the concentration of my **master Sodium Chlorite Solution** to approximately **24%** by adding only **6 ounces** of warmed distilled water to the entire contents of my 12 oz. Sodium Chlorite combo kit bag - instead of the 9 ounces of water required to produce a 22.4% Sodium Chlorite solution - will allow a much higher concentration of chlorine dioxide gas to literally **bubble out** of the Mixer bottle when immersed in a water bath containing boiling hot water. This allows a **higher concentration of chlorine dioxide gas** to diffuse into my two quart size CDS Water bottles in a **shorter span of time** and at a **higher concentration** than if I used 22.4% Sodium Chlorite solution in the Mixer bottle.

## To Make Two Quarts of 500ppm CDS Water

I now add **1.5 oz.** of the **24%** Sodium Chlorite solution and **1.5 oz.** of 50% Citric Acid solution to the Mixer bottler if I want to produce **two quarts** of 500ppm CDS Water in 30 - 40 minutes.

## To Make Four Quarts of 500+ppm CDS Water

If I want to produce **4 quarts** of 500+ppm CDS water, then I'll add **2 oz.** of each solution to the Mixer bottle. The first two quarts will measure in the 600-650ppm range while the second two quarts will measure in the 400-450ppm range after 25-30 minutes of running time using an aquarium air pump. I change the water bath to fresh boiling hot water at 10 minute intervals to keep the water as hot as possible. I then mix all 4 quarts together to average out the ppm to about 550ppm and store in glass quart bottles in the frig.

If interested, send me an [email](#) or leave a voice mail at **949-544-1375** with your email address (spell it out slowly and distinctly) and I'll send you more information. .

Some people feel making CDS Water is too complicated and ask if they can obtain CDS Water ready made. The answer is Yes, of course, and you can find vendors online that typically charge **\$28** for a **4 oz** bottle of CDS of **3,000 ppm**, while eBay prices range from \$30 - \$60 for a 4 oz. bottle, but I use another protocol to produce CDS Concentrate in a higher concentration of **3800 ppm** made available as a Premium Gift for a donation which is **30-50% lower than what vendors are asking**. You can learn more by reading this link:  
[CDS Water Concentrate Will Last Longer and Is Easier to Store \(April 22, 2019\)](#)

With the CDS Production Rig shown here, you can produce **64 ozs.** (2 quarts) of **500ppm CDS water for the cost of the distilled water**, which works out to approximately **\$0.60 cents**.

The CDS water seen on the right is measured at slightly over **500ppm** using [InstaTest Analytic High Range Chlorine Dioxide test strips](#) (#3002) made by LaMotte. I produced these two quarts in about **45 minutes** using a small aquarium pump to push the gas through the water. I mixed 1 oz. of 24% Sodium Chlorite solution and 1 oz. of 50% Citric Acid solution in my Mixer bottle. I increased the concentration of the Sodium Chlorite Master Solution from the standard **22.4%** solution, originally set by Jim Humble for people who were **consuming drops of MMS** in water, to a **24% Sodium Chlorite Master Solution** intended **exclusively** for making **higher ppm CDS water in a shorter span of time**. By increasing the concentration of the sodium chlorite solution, you produce a higher concentration of chlorine dioxide gas which allows you to make a more concentrated batch of CDS water in less time. I normally ingest CDS water in the **50ppm** range, which is more than strong enough. If you put **500ppm** into your mouth, you will feel the intense effect of the oxidation immediately and you won't be able to hold it for more than a second or two. The oxidizing action is too intense. While I produce 500ppm of CDS Water for refrigerator storage, I'll **dilute** it down with distilled water to the 50ppm range for drinking or swishing in the mouth. If you can handle it stronger, then that's fine, but most people find 50ppm to be **pleasantly strong** - It's up to you to determine what you can handle.

For more information, [email](#) or leave a voice message at **949-544-1375**

Ken Adachi

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## Related

*Amazing* book available for free:  
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[Is Syringe Injection a Better Technique for Making CDS Water? \(March 26, 2016\)](#)

<http://educate-yourself.org/cn/Is-Syringe-Injection-a-Better-Technique-for-Making-CDS-Water26mar16.shtml#top>

**List of 31 Pathogenic Organisms, Contact Time to Kill, PPM Concentration of CDS Water Applied, and Net Results**

**Note the amazing germicidal properties of Chlorine Dioxide Solution (CDS Water) Notice the 5 minute contact time and the ppm concentration of CDS necessary to kill the Herpes Simplex Type 1 virus. The kill rate would likely be the same for Herpes Simplex 2 ( genital herpes).**

## Commercial test results using a 2% stabilized chlorine dioxide solution

TEST ORGANISM	CONTACT TIME	CONCENTRATION	RESULT
Alicyclobacillus acidoterrestris	10 min	30 ppm	99.998% kill
Aspergillus fumigatus spores	60 sec	100 ppm	99.998% kill
Bacillus cereus spores	5 min	200 ppm	99.999% kill
Campylobacter jejuni	30 sec	30 ppm	99.9% kill
Candida albicans	60 sec	100 ppm	99.99999% kill
Canine Parvovirus	10 min	500 ppm	100% virucidal
Cladosporium	30 sec	500 ppm	99.999% kill
Coxsackie Virus	5 min	550 ppm	99.9% kill
Erwinia color carotovora carotovora	60 sec	50 ppm	99.999% kill
<b>Escherichia coli O157:H7</b>	<b>60 sec</b>	<b>3 ppm</b>	<b>99.999 % kill</b>
<b>Herpes Simplex Virus Type 1</b>	<b>5 min</b>	<b>550 ppm</b>	<b>99.9% kill</b>
Lactobacillus sp.	60 sec	20 ppm	99.999% kill
Legionella pneumophila	60 sec	25 ppm	99.999% kill
Listeria monocytogenes	60 sec	25 ppm	99.9999% kill
Mycobacterium bovis (tuberculosis)	10 min	500 ppm	99.9999% kill
Newcastle Disease virus	10 min	500 ppm	100% kill
Pediococcus sp.	60 sec	20 ppm	99.999% kill
Polio Virus Type 2	5 min	550 ppm	99.9% kill
Proteus mirabilis	60 sec	100 ppm	99.999999% kill
PRRS virus	60 sec	312 ppm	100% virucidal
Pseudomonas aeruginosa	60 sec	5 ppm	99.9999% kill
Pseudorabies virus	10 min	500 ppm	100% virucidal
Rhino Virus	5 min	550 ppm	99.9% kill
Saccharomyces cerevisiae	60 sec	30 ppm	99.999% kill
Salmonella choleraesuis	10 min	500 ppm	100% kill
Salmonella typhimurium	60 sec	100 ppm	99