



PURE BLEND PRO RECIPE

Drain to Waste

- Change reservoir every 7 days
- Keep pH between 5.8 - 6.1. (Unless in Soil pH should then be 6.2 - 6.6) Keep Water Temp at 66-68 F
- Add MagiCal to Fresh Water and bring up to 150 ppms
- Only add additives whenever you change out reservoir
- Add Nutrient up to Desired TDS level

Reservoir Maintenance

- Add all Additives first (follow directions below)
 - MagiCal**- Add to RO Water - bring up to 200ppms before ALL other additives. Restores initial balance.
 - Hydroplex** - Either Soil or Hydro depending on media. 1-1.5.tsp./Gallon. (5-7.5mL/Gallon)
 - Liquid Karma** - 1-4 tsp. per Gallon. (5-20mL per Gallon)
 - Vermi-T** - Live Worm/Compost Tea w/30,000 Microbes! - 1 Gallon for 50 Gallon Reservoir.
 - Piranha** - 1.25 Grams per Gallon - Mycorrhizae and Trichoderma Fungi. Simply Amazing!
 - Roots Excelerator** - Blows Roots way out. Awesome product! - 1.1mL per Gallon.
 - Cannazym** - Enzyme Solution promotes growth. 1.5-3tsp./Gallon. (8-16mL/Gal.)
 - Budswel** - Organic Worm Castings and Bat Guanos- 1-2 TableSpoon per Gallon. (15-30mL/Gallon)
 - BudCandy** - (food for Microbes) 1-3 tsp. per Gallon (Esters increase oil/sugar/resin.) (5-15mL/Gallon)
 - Canna Boost** - New! Incredible oil/sugar/resin builder. 4-8tsp./Gallon. (20-40mL/Gallon)
 - Final Phase** - 2tsp. per Gallon. (10mL/Gallon)
- Now add your nutrient to the desired TDS (ppm). *If the concentration is ever too high - dilute with water.*
- Check and adjust pH. ALWAYS pH - even when not mentioned!
- Make sure to have air stones in reservoir. O2 is more important than Additives. More aeration is better.
- Make sure water temp is 66-68 deg. F. (More oxygen is available at cooler temperatures.)
- Note: There are a lot of additives. You don't need to use them all. They each have a specific purpose.
- Note: If you are going to use Phosphoload then you will use at DAY 16 of Bloom. Use- 6mL/Gallon Run for 3 days then FLUSH. If Using Phosphoload - ONLY add Roots Excel and Nutrients (@75% Strength)

Other Maintenance

- A general recipe for Soil, Soiless, or Hydro Based Mediums. *The pH listings are for Hydro or Soiless Media.*
- Make sure you have great drainage in trays/pots. No roots sitting in standing water!
- Additives should not equal more than 37% of your overall TDS (ppms.) Ex. 1200 ppms - Additives should not be more than 400 - 500ppms at the most. Additives are anything except Main nutrient 2 Part.
- If more you want to make crop even more Organic - Add-1tsp./Gal. **Canna Bio Bloom** for entire Bloom Phase.
- Check for Nutrient burn. If you see leaf tips yellow/browning or burning on edges of leaves, lower your Overall TDS values. Do not let plants get necrotic spotting in the middle of leaves. If you see any serious burning - FLUSH reservoir and re-do nutrients at 200 ppm lower than before.
- Always look for signs of overwatering - Plants get heavy saggy look and feel to them. Adjust water timer.
- Any time you do a FLUSH check to see what your "Run-Off" pH and (ppms) come out at. A healthy medium will have the same pH & ppms as the water you are putting in. An example- during a FLUSH with RO water is a pH of 5.8 and a ppm of 25-75. We want it to match within .2pH and 100ppms. If after FLUSHING your ppms are still high-FLUSH more! If pH is off - lower or raise pH by the difference and FLUSH again. Ex. pH Going in is 5.8-Coming out is 6.5 - Flush at around 5.0. Test pH. Repeat as nec.

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Seedlings or Cuttings:

Use **PureBlend Pro Grow** (for main nutrient)

If starting from seed you will want to build your TDS up. You will start at 300-400 ppms after the seed cracks. To crack the seed soak in warm water between a damp paper-towel for a couple of days. Once cracked, move to **Ready Grow** cube. You will bring TDS up 200 or so ppms per week until at 1000-1200ppms for Bloom.

Note: **Piranha, Vermi-T, Cannazym and Roots Excelerator** are all good. (After first roots developed.)

If Using **Rooted Cuttings**, you will want to start your clones at the same TDS that the parents were kept at. If you do not know what that level was, a safe place to start is 800 - 1000 ppms. You will be looking for new growth on the tops of the plant before we can safely put them into the vegetative stage.

Note: One of the major problems people have with cuttings is that they throw them under too intense of a light source. Clones are coming from an area with a low intensity of light and extremely humid conditions. Make sure your HID light is high at first and lower it 6" a day until desired height is reached. Also spray plants occasionally with **Liquid Karma** and combined with a wetting agent like **Wet Betty**.

Vegetative Stage:

Use **PureBlend Pro Grow** Nutrient

If starting from seed - you will raise your ppms up to 1000-1200 ppms throughout this phase. You will want to start at 300-400 ppms. For the first 2 weeks you will coddle your plants and tend to their every desire. You will then raise the ppms 200 per week. Look to see if there is any damage at all to their leaves. If yes, lower the TDS! Steadily raise ppms every week until you get to 1000-1200 ppms. You should be able to follow the Bloom chart/map in this hand-out. You may have to start week 1 at 1100 instead of 1200. If this is the case, raise ppms 100 every week until you get to 1500 in week 5 (instead of week 4.)

If starting from Rooted Clone - You will want to keep your plants in the 1000 ppm - 1200 ppm range for this entire cycle. No Higher levels needed. *Yes. You can start at 800 -1000ppms! Because thats where parent was.*

Before adding Nutrient - Add Each of your desired additives.

Now add Nutrient to desired TDS (ppms).

You will want to maintain your **pH** at **5.8 - 6.1**. *Unless in Soil pH should be 6.2-6.6*

Here is an example of a 3 week vegetative schedule (starting from cuttings/clones of your favorite plant(s))

Week 1 - TDS 800 (Add **Liquid Karma 1tsp./Gal.**, and **Bud Candy 1tsp./Gal.**, and **Cannazym at 1tsp./Gal.**)

Connect Air Stones to Air Pump and submersestones in Water. Make Sure they work.

Check Timer for Pump, and set appropriate on/off times; depending on system type and grow media used.

Make Sure Tray(s) / Pots Drain.

Start Your Reservoir by adding **Reverse Osmosis (RO) water**.

Add **Magical** up to 150 ppm.

Next Add Additives. (**Roots Excelerator, Vermi-T, Piranha, Bud Candy, Liquid Karma, and Cannazym**)

Now add **PureBlend Pro Grow** - bring TDS to 800 ppms.

Adjust pH to 5.8-6.1 (You will have to play with **pH** - between **5.8-6.1**. (pH is 6.5 for Soil.)

Check water temp after 1-2 days Make sure it is bewteen 66-68 deg. F. This is important to get right Now!

Week 2 - TDS 950 (Same steps as Week 1 - New TDS)

Fill and Dose Reservoir. Make sure Reservoir temperature is between 66-68 deg. F.

Add **Magical** up to 150 ppm.

Next Add Additives. (**Roots Excelerator, Vermi-T, Piranha, Bud Candy, Liquid Karma, and Cannazym**)

Now add **PureBlend Pro Grow** and bring TDS up to 950 ppms.

Adjust **pH to 5.8-6.1** (keep pH at level you found to be right last week.)(pH is 6.5 for Soil).

Keep levels of pH and TDS correct. Make sure you have good drainage!

Now is the time to figure out and dial in your mediums water needs. (Aside from Grow Rocks / Hydroton) you will want to make sure that your given medium (Soil/ Coco/ Soiless / Rockwool) goes from WET to BARELY MOIST before you water again. This is critical to get right now.

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FLUSH - Use RO Water. Make sure water comes out clean. "From Dirty to Clean"

Week 3 - TDS 1100 (Keep it movin'. Same as last week).

Start Your Reservoir by adding **RO water** Check water temp - make sure it is between 66-68 deg. F. Connect Air Stones to Air Pump and submerge Stones (Not Pump!) in Water, Making Sure Stones work. Add **Magical** up to 150 ppm.

Next Add Additives. (**Roots Excelsator, Vermi-T, Piranha, Bud Candy, Liquid Karma, and Cannazym**)

Now add **SensiGrow A+B Grow** - bring TDS to 1100 ppms. Adjust daily - keep at 1100 ppms all week.

Adjust **pH** to **5.8-6.1** (pH is 6.5 for Soil.)

Make Sure Tray(s) / Pots Drain. Make sure you **CONNECT** Irrigation PUMP to timer and it is ON!

Fruit/Flower Stage:

PureBlend Pro Bloom for Coco/Hydro. Use **PureBlend Pro Bloom Soil** for Soil. Start w/ **pH 5.8** - Hydro. **6.5** - Soil.

Add **Piranha** (1.25gram/Gal.) **Liquid Karma** (1-4tsp. per Gal.) **Hydroplex** (1-1.5tsp./Gal.)

Budswel (1-2 TblSpn./Gal) **Bud Candy**(1 - 3 tsp. per Gal.) **Vermi-T** (1 Gal. per 50Gal. of Sol.)

Cannazym (8-16mL/Gal.) **MagiCal** (150ppm, **Roots Excel** (1.1ml/Gal.) Canna **Boost** (1-4tsp./Gal.)

Week 1 of Bloom stage with a TDS of 1200 ppms. Add **Cannazym** at 8mL/Gal.

Week 2 TDS - 1300 ppms - Keep Going - nothing Changes

Week 3 TDS - 1400 ppms - **pH 5.8** - **Budswel** 1TblSpn./Gal., **Liquid Karma** up to 2tsp./Gal., **Boost** 1tsp./Gal.

Raise **Bud Candy** up to 2tsp./Gal.

Week 4 TDS - 1550 ppms - **pH 5.8** All stays the same. . .

Week 5 TDS - 1700 ppms - Raise **Liquid Karma** to 3 tsp./Gal, Raise **Boost** to 2tsp./Gal

Week 6 TDS - 1700 ppms - **pH 5.7** Raise **Budswel** to 2TblSpns./Gal. (30mL/Gal.) Increase **Bud Candy** to 3tsp./Gal. Start **HydroPlex** 1 tsp./Gal. **Boost** goes up to 3tsp./Gal.

Week 7 TDS - 1000 ppms - **pH 5.6** **Hydroplex** goes up to 1.5tsp./Gal. Raise **Cannazym** to 16mL/Gal.

Week 8 TDS - 0-300 ppms - **FLUSH** anywhere from 4-7 days to end of Harvest - Look below for instructions.

Note: You will be adding **Budswel, Bud Candy Liquid Karma, and Boost** or larger fruit / flowers throughout the Bloom phase. Increase the dosage of these additives throughout. For example, if the range of use of these additives is 1-2tsp. then start at 1tsp. and get to 2 tsp. by week 5 of Bloom. If you ever see signs of stress then reduce the strength of these additives immediately.

You will harvest anywhere from wks. 7-10 of Bloom. At that stage you will need to Flush. We suggest **Final Phase**. You can see that the general trend here is that you will be raising your TDS up from 900 at week 1 all the way up to 1300 ppms by of the 6th week bloom. (Note that some plants need more than 8 weeks to create fruits/flowers - up to 10 weeks. Adjust accordingly.

Note: If at any point you see rust colored spotting, leaf tip burn, discoloration around leaf edges, yellowing of newer leaves, etc. check pH, check roots, lower TDS by 200-300. If it gets worse, drain / Flush Reservoir.

Working with Organics is a tricky endeavor. It can be very rewarding in the long run because your fruit/flowers will be more aromatic, have more flavor, and generally look very beautiful. That is why we are using this many additives in the reservoir. Each one is used for a specific duration, at a specific time to produce a specific effect. Pay close attention to your plants. And again --- If signs of nutrient burn are observed, lower TDS.

Here is an example of an eight-week bloom schedule: (pH is for HYDRO or Soiless. **Soil pH** should be **6.2-6.6**)

FLUSH - Use Final Phase. Make sure water comes out clean. "From Dirty to Clean"

Week 1 - TDS 1200 (**pH shifts** to **5.8**, **Liquid Karma**, and **Bud Candy** 1tsp./Gal. - **Cannazym** 8mL./Gal.)

Drain and Refill Reservoir using **RO water**. Check water temp after 1 day. Make sure it is between 66-68 deg. F. Connect Air Stones to Air Pump and submerge Stones (Not Pump!) in Water, Making Sure Stones work.

Add **MagiCal** up to 150 ppms.

Add Additives. (**Liquid Karma, Vermi-T, Bud Candy, Roots Excel, Piranha, Cannazym.**)

Now add **PureBlend Pro Bloom** - bring TDS to 1200 ppms.

Adjust **pH** to **5.8** (Most Plants will now be at lower **pH like 5.8**) (If in Soil use pH of 6.5)

Make sure Tray(s) are draining completely. Make sure you **CONNECT** Irrigation PUMP to timer and it is ON!

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FLUSH - Plain RO Water - Make sure water comes out clean. "From Dirty to Clean"

Week 2 - TDS 1300 (All Additives stay at where they were from last week).

Fill Reservoir w/ **RO water**. Make sure Reservoir temperature is between 66-68 deg. F.

Add **MagiCal** up to 150 ppms.

Add Additives. (**Liquid Karma, Vermi-T, Bud Candy, Roots Excel, Piranha, Cannazym.**)

Now add **PureBlend Pro Bloom** and bring TDS up to 1300 Adjust pH to **5.8**. (If in Soil pH is 6.5)

Keep levels of pH and TDS correct. Make sure you have good drainage!

FLUSH - Plain RO Water - Make sure water comes out clean. "From Dirty to Clean"

Week 3 - TDS 1400 (Begin **Budswel** at 1Tbbspn./Gal. **Liquid Karma** goes to 2tsp./Gal. Begin **Boost** 1tsp./Gal.

Now Raise **Bud Candy** up to 2tsp./Gal.)

Drain and Refill Reservoir using **RO water**.

Check water temp after 1-2 days. Make sure it is 66-68 deg. F.

Connect Air Stones to Air Pump and submerge Stones (Not Pump!) in Water. Make Sure Stones work.

Add **MagiCal** up to 150 ppms.

Add Additives. (**Liquid Karma, Vermi-T, BudSwel, Bud Candy, Roots Excel, Piranha, Cannazym., and Boost.**)

Now add **PureBlend Pro Bloom** and bring TDS to 1400 ppms.

Adjust **pH to 5.8**. *Make Sure Roots are still healthy.* (If in Soil pH is still 6.5.)

Make sure you CONNECT Irrigation PUMP to timer and it is ON! *Common mistake after draining reservoir.*

You should see good mychorizae growth from Piranha. White fuzzy healthy roots.

A critical stage of development. Vermi-T should be in Full Bloom. Roots Excel keeping the roots healthy.

FLUSH - Plain RO Water - Make sure water comes out clean. "From Dirty to Clean"

Week 4 - TDS 1550

Fill Reservoir w/**RO Water**. Make sure Reservoir temperature is 66-68 deg. F.

Add **MagiCal** up to 150 ppms.

Add Additives. (**Vermi-T, Karma, Budswel, Bud Candy, Roots Excel, Piranha, Cannazym, BioBoost.**)

Now add **PureBlend Pro Bloom** and bring TDS up to 1550 ppms. Adjust pH to **5.8**. (Soil pH is 6.5.)

Keep levels of pH and TDS correct.

Make sure you have good drainage! Roots can die easily from suffocation at this stage.

FLUSH - Use Final Phase. Make sure water comes out clean. "From Dirty to Clean"

Week 5 - TDS 1700 (Raise **Liquid Karma** 3tsp./Gal. Raise **Boost** up to 2tsp./Gal.)

Start Your Reservoir by adding **RO water**.

Add **MagiCal** up to 150 ppms.

Add Additives. (**Sensizym, Vermi-T, Budswel, Karma, Bud Candy, Roots Excel, Cannazym, and Boost.**)

Now add **PureBlend Pro Bloom** - bring TDS to 1700 ppm.

Adjust **pH to 5.8**. (If in Soil pH is 6.5)

Make sure Irrigation PUMP is connected to timer and that it is ON! Make sure Tray(s) are draining completely.

Make Sure Roots are still healthy. Almost at the home stretch!

Check water temp after 1-2 days. Make sure it is 66-68 deg. F.

FLUSH - Plain RO Water - Make sure water comes out clean. "From Dirty to Clean"

Week 6 - TDS 1700 - (Raise **Budswel** to 2TableSpn/Gal (*30ml/Gal.*) **Bud Candy** goes up to 3tsp./Gal.)

(Raise **Boost** to 3tsp./Gal. Start **HydroPlex** 1tsp./Gal.)

Fill Reservoir w/ **RO water**. Make sure Reservoir temperature is between 66-68 deg. F.

Add **MagiCal** up to 100 ppms.

Add Additives. (**Hydroplex, Karma, BudSwel, Vermi-T, Bud Candy, Roots Excel, Cannazym, Boost.**)

Check Water temp - it should be 66-68 deg. F.

Now add **PureBlend Pro Bloom** - bring TDS to 1700 ppm.

Adjust **pH to 5.7**. (This is down from last week where it was 5.8.) (If in Soil still use 6.5 pH).

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Look for signs of Nutrient Burn, Yellowing, Rust Color Spotting, Leaf tip burn. Only small amounts of this are acceptable at this stage. If you notice heavy damage, lower TDS 200 ppms, If damage continues, Flush and reduce TDS by 400ppms and lower strength of Additives - **Liquid karma, Hydroplex, Budswel, Canna Boost.**)

At this point fruit or flowers should be filling in rapidly and ripening is soon to begin.

Roots may be yellow or cream colored on mature plants. You should still have mychorrizae white fuzz on your roots if using **Piranha**. Lower leaves can Yellow from a lack of Nitrogen.

FLUSH - Use RO Water. Make sure water comes out clean. "From Dirty to Clean" - No more **MagiCal** from now on.

Week 7 - TDS 1000 (Lower pH to **5.6**-Raise **Hydroplex** 1.5tsp/Gal. **Karma** 4tsp./Gal. Raise **Cannazym** to 16mL/Gal.) Start Your Reservoir by adding **RO water** (no more **MagiCal**!!)

Connect Air Stones to Air Pump and submerge Stones (Not Pump!) in Water, Make Sure Stones work.

Add Additives. (**Hydroplex, Karma, BudSwell, Vermi-T, Bud Candy, Roots Excel, Boost, and Cannazym**)

Now add **PureBlend Pro Bloom** bring TDS to 1000 ppm.

Adjust **pH to 5.6**. (Soil pH 6.5.)

Make sure Tray(s) and Pot(s) are draining completely.

Make Sure Roots are still healthy. If not, it should not matter that much, but try and do better NEXT time.

Make sure Irrigation PUMP is still connected to timer and it is ON!

Check water temp after 1-2 days. Make sure it is between 66-68 deg. F.

FLUSH - Use Final Phase. Make sure water comes out clean. "From Dirty to Clean"

Week 8 - (FLUSH!) - Lower Res. Temps. to 50 deg. F. - Raise **Bud Candy** to 3tsp./Gal., Raise **Boost** to 4tsp./Gal.

Fill Reservoir w/ **RO water**. Make sure Reservoir temperature is as close to 50 deg. F.

Add Additives. (**Bud Candy, Final Phase, Boost.**)

NO NUTRIENTS this Week!

Adjust **pH to 5.6** (Soil pH 6.5.)

FLUSH --- either at the beginning of this week and ignore the above. Or after 3 days Flush for final 4 days. Read Flushing notes below.

Final Flushing:

To flush, drain reservoir 4-7 days from finish. Fill with fresh water. Add **Final Phase** at a rate of 2tsp. per Gallon. Add Nutrient. Raise TDS to 500 ppms. Run for 1-2 days. Drain Reservoir. Repeat process (add Final Phase) and run until fruit is ripe. One a day until last flush which runs for 2 days.

General Notes:

If at any point you see evidence of disease (persistent major pH shift, foamy / slimy-ness in the reservoir, large scale root death.) You will need to clean and sterilize the reservoir and trays. Flush out the pots and trays with a copious amount of water. Bleach as much of the hydro system as possible (including tubing, pump, reservoir and trays.) Bleach will kill diseases, but is also toxic to plants, so be sure to rinse well before reusing. Refill reservoir and re-dose. Be prepared to Flush the system every other day until the problem is solved.

It is also a good idea to wash out your reservoir monthly. On any one of the bi-weekly drains you can take it out and bleach it down. Then rinse it well to remove the bleach residue. When clean restart as normal.

Again, look for any signs of stress. Anything at all. If you see any discoloration, or any damage to the roots. Call us! Or, come in and talk with us about it! *We can help.* We can help - If its not too late!

Disclaimer

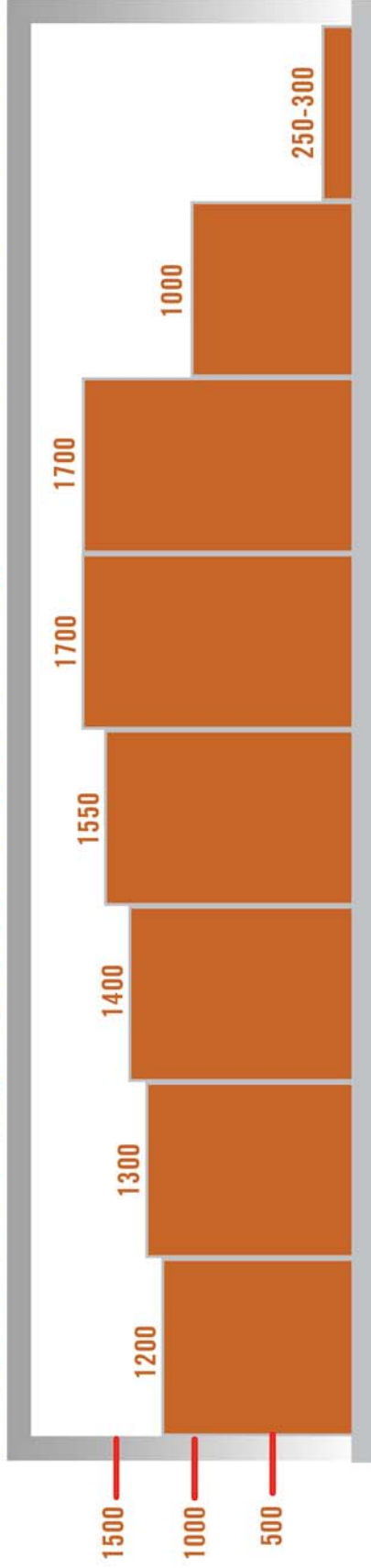
Individual results may vary. We are in no way responsible for your results. Environmental Conditions can change any end result. We are not responsible for other people's mistakes. This is a generalized recipe for tomatoes and cucumbers in particular. Use a TDS meter. Maintain pH. Maintain a Healthy Reservoir Temperature. Use RO water. Change Out Reservoir. Call us with problems. This recipe is intended for legal use only.

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Overall Concentrations (TDS) - in ppms (w/a 700 Conversion Factor)

PureBlend Pro as Main Nutrient



| | week 1 | week 2 | week 3 | week 4 | week 5 | week 6 | week 7 | week 8 |
|-------------------------|---------------|------------------|------------------|---------------|------------------|----------------|------------------|--------------|
| Roots Excel | Roots Excel | Roots Excel | Roots Excel | Roots Excel | Roots Excel | Roots Excel | Roots Excel | Final Phase |
| 1.1mL / Gal. | 1.1mL / Gal. | 1.1mL / Gal. | 1.1mL / Gal. | 1.1mL / Gal. | 1.1mL / Gal. | 1.1mL / Gal. | 1.1mL / Gal. | 2tsp. / Gal. |
| Vermi - T | Vermi - T | Piranha | Vermi - T | Piranha | Vermi - T | Cannazym | Vermi - T | Bud Candy |
| 1 Gal. / 50 Gal. | 1.25grm./Gal. | 1 Gal. / 50 Gal. | 1 Gal. / 50 Gal. | 1.25grm./Gal. | 1 Gal. / 50 Gal. | 8mL./Gal. | 1 Gal. / 50 Gal. | 3tsp./Gal. |
| Piranha | Cannazym | Piranha | Cannazym | Cannazym | Piranha | Liquid Karma | Cannazym | Boost |
| 1.25grm./Gal. | 8mL./Gal. | 1.25grm./Gal. | 8mL./Gal. | 1.25grm./Gal. | 1.25grm./Gal. | 3tsp. / Gal. | 16mL./Gal. | 4tsp../Gal. |
| Cannazym | Liquid Karma | Cannazym | Liquid Karma | Cannazym | Cannazym | Bud Candy | Liquid Karma | |
| 8mL./Gal. | 1tsp. / Gal. | 8mL./Gal. | 2tsp. / Gal. | 2tsp. / Gal. | 8mL./Gal. | 3tsp./Gal. | 3tsp. / Gal. | |
| Liquid Karma | Bud Candy | Liquid Karma | Bud Candy | Liquid Karma | Liquid Karma | Boost | Bud Candy | |
| 1tsp. / Gal. | 1tsp./Gal. | 2tsp. / Gal. | 2tsp./Gal. | 2tsp./Gal. | 3tsp. / Gal. | 3tsp./Gal. | 3tsp./Gal. | |
| Bud Candy | Bud Candy | Bud Candy | Boost | Boost | Bud Candy | BudSwel | Boost | |
| 1tsp./Gal. | 2tsp./Gal. | 2tsp./Gal. | 1tsp./Gal. | 1tsp./Gal. | 2tsp./Gal. | 2TbISpn./Gal. | 3tsp./Gal. | |
| | BudSwel | BudSwel | BudSwel | BudSwel | Boost | HydroPlex | BudSwel | |
| | 1TbISpn./Gal. | 1TbISpn./Gal. | 1TbISpn./Gal. | 1TbISpn./Gal. | 2tsp./Gal. | 1tsp../Gal. | 2TbISpn./Gal. | |
| | Boost | Boost | Boost | BudSwel | BudSwel | HydroPlex | HydroPlex | |
| | 1tsp./Gal. | 1tsp./Gal. | 1tsp./Gal. | 1TbISpn./Gal. | 1TbISpn./Gal. | 1.5 tsp../Gal. | 1.5 tsp../Gal. | |

5mL = 1teaspoon

15mL = 1 Tablespoon = 3 teaspoons



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