



# HEAVY 16 SPECIAL SAUCE

## Recirculating

- Change reservoir every 7 days
- Keep pH between 5.8 - 6.1. Keep Water Temp at 66-68 F
- No need to add MagiCal because Heavy 16 was made for RO (Purified) Water
- Only add additives whenever you change out reservoir
- Add Nutrient up to Desired TDS level

### Reservoir Maintenance

- Add all Additives first (follow directions below)
  - Vermi-T** - Live Worm/Compost Tea w/30,000 Microbes! - 1 Gallon for 50 Gallon Reservoir.
  - Roots Excelerator** - Blows Roots way out. Awesome product! - 1.1mL per Gallon.
  - Cannazym**- Digestive Enzyme Solution. Add 2-4tsp./Gal. (10-20mL/Gal.) After 2nd week of Veg til end.
  - Piranha** - 1 Grams per Gallon - Mychorrizae and Trichoderma Fungi. Simply Amazing!
  - Voodoo Juice** - 1-2 tsp. / Gal. - Adds Insane Root Mass!
  - Big Bud and Overdrive** - 1/2-1 tsp. per Gal. - use as directed from recipe sheet. Never both at same time.
  - Pre Bloom** - 1tsp./Gal. Use in weeks 2-3 of Veg. Gives thicker stalks, more brances, more bloom sites.
  - Ultra Bloom** - 1 tsp./Gal. Use in weeks 1-2 of Bloom. Increases initial flower set. Triggers bloom faster.
  - Ooze Bloom** - 1 tsp./Gal. Use in weeks 4-6 of Bloom. Develops more Mass and adds oil/sugar to fruit.
  - Final Bloom** - 1tsp./Gal. Use in weeks 6-7 of Bloom. Final Fruit/Flower Stacker. Adds Density. More oil.
  - Bud Candy** - 1-4tsp.Gal. Use in Veg. Throughout Bloom to add to overall Sweetness and Feed Microbes.
  - Purple Maxx** - Follow Special Instructions - 1tsp. / Gal. for weeks 7 and 8. (5mL/Gallon) **Foliar**-2ml/Gal.
  - 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.

### Other Maintenance

- *Make sure you have great drainage in trays/pots. No roots sitting in standing water!*
- Additives should not equal more than 33% of your overall TDS (ppms.) Ex. 1200 ppms - Additives should not be more than 400 ppms at the most. Additives are anything except Main nutrient 2 Part.
- General Rule: A healthy crop will bring water level & TDS down every day
- 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 **Heavy 16 A+B 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 Exceleator** 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 **Heavy 16 A+B 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**. always Check pH last. *Even if instructions do not mention to.*

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

**Week 1** - TDS 800 (Fresh Reservoir) (**Bud Candy** at 1tsp./Gal., **Vermi-T** - 1 Gal./ 50 Gals.,  
**Roots Excel** -1.1mL/Gal., **Piranha** - 1gram/Gal., **Voodoo Juice** - 1tsp./Gal.)

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

Check Timer for Pump, and set appropraite 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**.

Next Add Additives. (**Roots Exceleator, Vermi-T, Voodoo Juice, Piranha, and Bud Candy.**)

Now add **Heavy 16 A+B Grow** - bring TDS to 800 ppms. Adjust daily- keep at 800 ppms all week.

Adjust pH to 5.8-6.1 (You will have to play with **pH** - between **5.8-6.1**. Dial it in over course of week 1.)

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 - Add **Pre-Bloom** - 1tsp./Gal., **Voodoo Juice** - 1tsp./Gal.)

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

Next Add Additives. (**Roots Exceleator, Vermi-T Piranha, Pre-Bloom, Voodoo Juice, and Bud Candy.**)

Now add **Heavy 16 A+B 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.)

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 (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 (Start adding **Cannazym** at 5mL/Gal., and continue using **Pre-Bloom** at 1tsp./Gal.)  
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.  
Next Add Additives. (**Roots Excel, Vermi-T, Piranha, Bud Candy, Cannazym, Voodoo Juice, and Pre-Bloom** )  
Now add **Heavy 16 A+B Grow** - 1tsp./Gal. - bring TDS to 1100 ppms.  
Adjust **pH** to **5.8-6.1** (You will have to play with pH - between 5.8-6.1. Dial it in over course of week.)  
Make Sure Tray(s) / Pots Drain. Make sure you **CONNECT** Irrigation PUMP to timer and it is ON!

**Fruit/Flower Stage:**

Use **Heavy 16 A+B Bloom** Start w/ **pH 5.8**.

Add **Piranha** (1 gram per Gallon,) **Ultra Bloom** (1tsp./Gal.), **BigBud** (1tsp./Gal.) **OverDrive** (1/2-1tsp./Gal.)

**Ooze Bloom** (2 tsp./Gal.), **Vermi-T** (1 Gal. per 50Gal.), **Bud Candy** (1-4 tsp./Gal.),

**Voodoo Juice** (2tsp./Gal, ) **Final Bloom** (1tsp. per Gal.), **Roots Excel** (1.1ml/Gal.), **Cannazym** (2-4tsp./Gal.)

Week 1 TDS - 1200 ppms. Start **Ultra Bloom** 1tsp./Gal. **Bud Candy** at 1tsp./Gal. Up **Cannazym** to 2tsp./Gal.

Week 2 TDS - 1300 ppms - Start **BigBud** - 1tsp./Gal.

Week 3 TDS - 1400 ppms - **pH 5.8** Stop **Ultra Bloom**..

Week 4 TDS - 1500 ppms - **pH 5.8** Start using **Ooze Bloom** at 1 tsp./Gal.

Week 5 TDS - 1600 ppms - Nothing changes. . .Keep up the Good Thang!

Week 6 TDS - 1600 ppms - **pH 5.7** Start using **Final Bloom** at 1tsp./Gal.

Stop using **BigBud** Start **OverDrive** at 1/2-1 tsp./Gal.

Week 7 TDS - 1000 ppms - **pH 5.6** Start **Purple Maxx** in Res at 1tsp./Gal. Take **Cannazym** up to 4tsp./Gal.

Increase the level of **Bud Candy** to 3tsp./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 **BigBud, OverDrive, Ultra, Ooze, Bud Candy, and Final Bloom** for 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: (For best results, transfer this onto a real calendar! )*

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

**Week 1** - TDS 1200 ( **pH shifts to 5.8**) (Start using **Cannazym** at 2tsp./Gal. Start **Bud Candy** at 1tsp./Gal.)

(Add **Ultra Bloom** at 1tsp./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 Additives. (**Vermi-T, Roots Excel, Piranha, Cannazym, Bud Candy, and Ultra Bloom.**)

Now add **Heavy 16 A+B Bloom** - bring TDS to 1200 ppms.

Adjust **pH** to **5.8** (Most Plants will now be at lower **pH like 5.8**) (But plants are specific, so experiment.)

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

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**Week 2** - TDS 1300 (Start adding **BigBud** at 1tsp./Gal.)

Fill Reservoir w/ **RO water**.

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

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

Now add **Heavy 16 A+B Bloom** and bring TDS up to 1300

Adjust pH to **5.8**.

Keep levels of pH and TDS correct.

Make sure you have good drainage!

Make sure you CONNECT Irrigation PUMP to timer and it is ON!

**Week 3** - TDS 1400 (Stop **Ultra Bloom..**)

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 Additives. (**BigBud, Vermi-T, Roots Excel, Piranha, Bud Candy, Cannazym.**)

Now add **Heavy 16 A+B Bloom** Bringing TDS to 1400 ppms.

Adjust pH to **5.8**.

Make Sure Roots are still healthy.

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. Organics Alive should be in Full Bloom. Roots Excel keeping the roots healthy.

**Week 4** - TDS 1500 (Start **Ooze Bloom** at 1 tsp./Gal.)

Fill Reservoir w/**RO Water**.

Make sure Reservoir temperature is 66-68 deg. F.

Add Additives. (**BigBud, Ooze Bloom, Roots Excel, Bud Candy, Piranha, Cannazym.**)

Now add **Heavy 16 A+B Bloom** and bring TDS up to 1500 ppms.

Adjust pH to **5.8**.

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 1600 - Keep things movin'! Nothing changes. . .

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

Add Additives. (**BigBud, Vermi-T, Roots Excel, Bud Candy, Cannazym, Ooze Bloom.**)

Now add **Heavy 16 A+B Bloom** - bring TDS to 1600 ppm.

Adjust pH to **5.8**.

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.

**Week 6** - TDS 1600 - (Start **Final Bloom** at 1tsp./Gal. Stop **Big Bud**. Start **OverDrive** at 1/2-1tsp./Gal.)

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

Check Water temp - it should be 66-68 deg. F.No **BigBud** Anymore! Only **OverDrive**.

Add Additives. (**OverDrive, Cannazyme, Ooze Bloom, Bud Candy, Final Bloom, Roots Excel.**)

Now add **Heavy 16 A+B Bloom** - bring TDS to 1600 ppm.

Adjust pH to **5.7**. (This is down from last week where it was 5.8.)

Make sure you CONNECT Irrigation PUMP to timer and it is ON!

No **BigBud** Anymore!!! Only **OverDrive!!!**

Make sure you have good Drainage and that Trays and Pots Drain properly.

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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 - **Ooze Bloom, Overdrive, Final Bloom**)

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 mycorrhizae white fuzz on your roots if using **Piranha**. Lower leaves can Yellow from a lack of Nitrogen.

**Week 7** - TDS 1000 (Start **Purple Maxx** in Res at 1tsp./Gal.) (Spray **Purple Maxx** Lightly 1tsp./Quart - Every Day!)  
(Bring **Cannazym** up to 4tsp./Gal.)

Start Your Reservoir by adding **RO water**

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

Add Additives. (**OverDrive, Cannazym, Roots Excel, Bud Candy, Vermi-T, Final Bloom,**).

Now add **Heavy 16 A+B Bloom**- bring TDS to 1000 ppm.

Adjust **pH to 5.6**.

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 Tempsto 50 deg. F. - NO NUTRIENTS!

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

Add Additives. (**Final Phase, Final Bloom, Bud Candy, PurpleMaxx, and Cannazym.**)

Adjust **pH to 5.6**

**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

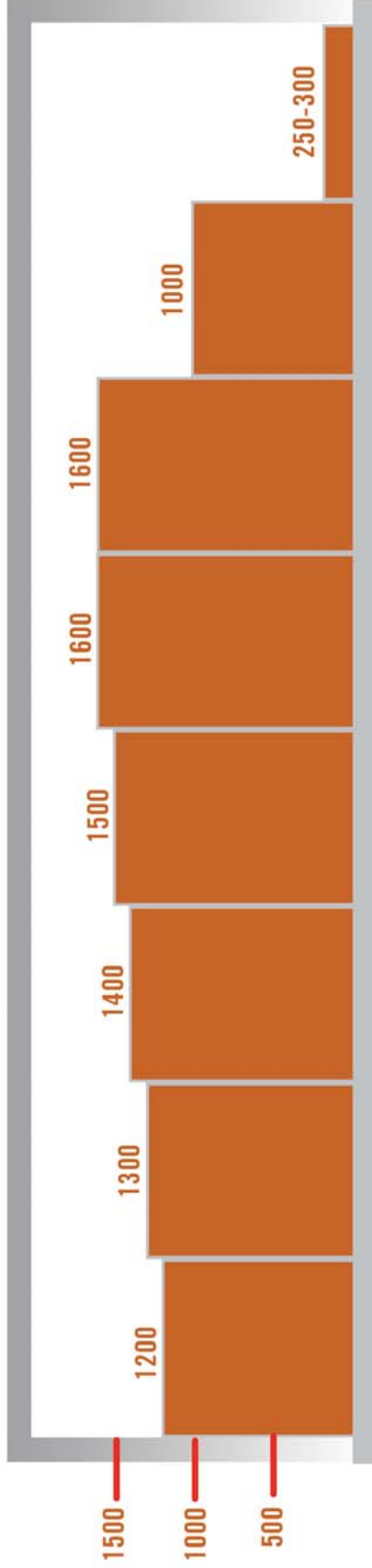
Individual results may vary. We are in no way responsible for your results. Environmental Conditions can change any end result. We are not responsible for other people's mistakes. This is a generalized recipe for tomatoes and cucumbers in particular. Use a TDS meter. Maintain pH. Maintain a Healthy Reservoir 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)

## Heavy 16 Bloom as Main Nutrient



week 1	week 2	week 3	week 4	week 5	week 6	week 7	week 8
<b>Roots Excel</b> 1.1mL / Gal. Vermi - T 1 Gal. / 50 Gal.	<b>Roots Excel</b> 1.1mL / Gal. Piranha 1 grm./Gal.	<b>Roots Excel</b> 1.1mL / Gal. Vermi - T 1 Gal. / 50 Gal.	<b>Roots Excel</b> 1.1mL / Gal. Piranha 1 grm./Gal.	<b>Roots Excel</b> 1.1mL / Gal. Vermi - T 1 Gal. / 50 Gal.	<b>Roots Excel</b> 1.1mL / Gal. Cannazym 2tsp./Gal.	<b>Roots Excel</b> 1.1mL / Gal. Cannazym 2tsp./Gal.	<b>Final Phase</b> 2tsp. / Gal. Final Bloom 1tsp./Gal.
<b>Piranha</b> 1 grm./Gal.	<b>Cannazym</b> 2tsp./Gal.	<b>Piranha</b> 1 grm./Gal.	<b>Cannazym</b> 2tsp./Gal.	<b>Cannazym</b> 2tsp./Gal.	<b>Ooze Bloom</b> 1tsp. / Gal.	<b>Cannazym</b> 4tsp./Gal.	<b>Purple Maxx</b> 1 tsp./Gal.
<b>Voodoo Juice</b> 2tsp./Gal.	<b>Ultra Bloom</b> 1tsp. / Gal.	<b>Cannazym</b> 2tsp./Gal.	<b>Ooze Bloom</b> 1tsp./Gal.	<b>Ooze Bloom</b> 1tsp./Gal.	<b>Bud Candy</b> 3tsp./Gal.	<b>Final Bloom</b> 1tsp. / Gal.	<b>Bud Candy</b> 3tsp. / Gal.
<b>Cannazym</b> 2tsp./Gal.	<b>Voodoo Juice</b> 2tsp./Gal.	<b>BigBud</b> 1tsp./Gal.	<b>BigBud</b> 1tsp./Gal.	<b>BigBud</b> 1tsp./Gal.	<b>OverDrive</b> 1/2-1tsp./Gal.	<b>OverDrive</b> 1/2-1tsp./Gal.	<b>Cannazym</b> 4tsp./Gal.
<b>Ultra Bloom</b> 1tsp. / Gal.	<b>BigBud</b> 1tsp./Gal.	<b>Bud Candy</b> 2tsp. / Gal.	<b>Bud Candy</b> 1tsp. / Gal.	<b>Bud Candy</b> 1tsp. / Gal.	<b>Final Bloom</b> 1tsp./Gal.	<b>Purple Maxx</b> 1tsp./Gal.	<b>Cannazym</b> 1tsp./Gal.
<b>Bud Candy</b> 1tsp. / Gal.	<b>BigBud</b> 1tsp./Gal.	<b>Bud Candy</b> 1tsp. / Gal.	<b>Bud Candy</b> 1tsp. / Gal.	<b>Bud Candy</b> 1tsp. / Gal.	<b>Final Bloom</b> 1tsp./Gal.	<b>Purple Maxx</b> 1tsp./Gal.	<b>Bud Candy</b> 3tsp. / Gal.

5mL = 1teaspoon

15mL = 1 Tablespoon = 3 teaspoons



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