



## STAGE 1 Cuttings & Young Plants (5 Weeks)

| Propagation        |                        |                  |                        |  |
|--------------------|------------------------|------------------|------------------------|--|
|                    | ZeroTol 2.0®           | TerraGrow®       | ZeroTol 2.0®           | ZeroTol 2.0® + OxiPhos® + AzaGuard®                            |
| <b>Application</b> | Cuttings Dip           | Drench           | Foliar Mist            | Foliar Spray   |
| <b>Rates</b>       | 0.5 fl. oz. per gallon | 2 oz. per gallon | 0.5 fl. oz. per gallon | 0.5 fl. oz. per gallon + 0.5 fl. oz. + 0.16 fl. oz. per gallon |
| <b>Week 1 (C)</b>  | ●                      | ●                | Every 3 days           |  |
| <b>Week 2 (C)</b>  |                        |                  | Every 3 days           |  |
| <b>Week 3 (YP)</b> |                        |                  |                        | ●  |
| <b>Week 4 (YP)</b> |                        | ●                |                        | ●  |
| <b>Week 5 (YP)</b> |                        |                  |                        | ●  |

### NOTES

#### Cutting Stage (C) – Weeks 1 & 2

- Dunk cuttings into ZeroTol 2.0 solution prepared at 0.5 fl. oz. per gallon of water for 45 seconds to disinfest. Allow to air dry
- Drench media with TerraGrow at 2 oz. per 100 gallons of water
- Add rooting hormones to cuttings and stick
- Spray plants with light mist of prepared solution. Light mist = just enough moisture to lightly wet top of growing media. Do not soak media

#### Young Plants Stage (YP) – Weeks 3-5

- Foliar spray 50 gallons of solution per acre
- Foliar spray for contact of entire shoot – leaves and stems down to soil
- Up solution rate per acre to 100 gallons as needed for coverage

- Always follow your state regulations for approved pesticide application on hemp
- Never add surfactant when spraying AzaGuard
- Spray before 10 am or after 3 pm to avoid potential heat stress

## STAGE 2 Vegetative (16 Weeks)

**Prior to Transplant:** Condition soil 48 hours prior to field transplant with TerraStart to remove pathogens and nematodes. Pre-wet field to 80% saturation. Direct inject TerraStart via drip or sprinkler at 3.8–7.6 gallons of TerraStart per 1,000 gallons of water. Use higher rate in fields with history of high disease pressure and/or heavy soil types. Flush irrigation system with fresh water to remove TerraStart from irrigation system.

|                    | ZeroTol 2.0 +<br>OxiPhos +<br>AzaGuard  | BioCeres® WP              | AzaGuard +<br>BioCeres WP                 | TerraGrow            |
|--------------------|---|---------------------------|---|----------------------|
| <b>Application</b> | Foliar Spray  | Foliar Spray              | Foliar Spray<br>(as needed)               | Drench               |
| <b>Rate(s)</b>     | 0.5 fl. oz. per gallon +<br>0.5 fl. oz. per gallon +<br>0.16 fl. oz. per gallon | 2 lbs. per<br>100 gallons | 16 fl. oz. +<br>2 lbs. per<br>100 gallons | 1.5 lbs.<br>per acre |
| <b>Week 1 (V)</b>  | ●   | ●                         |   |                      |
| <b>Week 2 (V)</b>  | ●   | ●                         |   |                      |
| <b>Week 3 (V)</b>  |   |                           | ●   | ●                    |
| <b>Week 4 (V)</b>  | ●   | ●                         |   |                      |
| <b>Week 5 (V)</b>  |   |                           | ●   |                      |
| <b>Week 6 (V)</b>  | ●   | ●                         |   |                      |
| <b>Week 7 (V)</b>  |   |                           | ●   | ●                    |
| <b>Week 8 (V)</b>  | ●   | ●                         |   |                      |
| <b>Week 9 (V)</b>  |   |                           | ●   |                      |
| <b>Week 10 (V)</b> | ●   | ●                         |   |                      |
| <b>Week 11 (V)</b> |   |                           | ●   | ●                    |
| <b>Week 12 (V)</b> | ●   | ●                         |   |                      |
| <b>Week 13 (V)</b> |   |                           | ●   |                      |
| <b>Week 14 (V)</b> | ●   | ●                         |   |                      |
| <b>Week 15 (V)</b> |   |                           | ●   | ●                    |
| <b>Week 16 (V)</b> | ●   | ●                         |   |                      |

### NOTES

- Spray 100 gallons of solution per acre
- Spray for contact of entire shoot - leaves and stems down to soil. Up solution rate per acre to 200 gallons as canopy develops to assure proper coverage

- 48 hours after ZeroTol 2.0/OxiPhos/AzaGuard tank mix spray, apply BioCeres WP at 2 lbs. per 100 gallons plus non-ionic spreader/sticker
- This crop protection routine is for pathogens such as; *Botrytis*, Powdery Mildew, *Phytophthora*, *Fusarium* and insects such as aphids, mites and thrips
- If insect pressure is heavy, spray AzaGuard at 16 fl. oz. per 100 gallons and BioCeres WP at 2 lbs. per 100 gallons on odd weeks as needed
- Never tank mix ZeroTol 2.0 with BioCeres WP
- Always follow your state regulations for approved pesticide applications on hemp
- Never add surfactant when spraying AzaGuard
- Spray before 10 am or after 3 pm to avoid stresses associated with high noon sun

### STAGE 3 Flowering (11 Weeks)

|                    | ZeroTol 2.0 + OxiPhos + AzaGuard  | BioCeres® WP           | AzaGuard + BioCeres WP              | TerraGrow         |
|--------------------|---|------------------------|-------------------------------------|-------------------|
| <b>Application</b> | Foliar Spray  | Foliar Spray           | Foliar Spray (as needed)            | Drench            |
| <b>Rate(s)</b>     | 0.5 fl. oz. per gallon + 0.5 fl. oz. per gallon + 0.16 fl. oz. per gallon | 2 lbs. per 100 gallons | 16 fl. oz. + 2 lbs. per 100 gallons | 1.5 lbs. per acre |
| <b>Week 1 (F)</b>  | ●   |                        | ●                                   |                   |
| <b>Week 2 (F)</b>  |   |                        |                                     |                   |
| <b>Week 3 (F)</b>  | ●   |                        | ●                                   | ●                 |
| <b>Week 4 (F)</b>  |   |                        |                                     |                   |
| <b>Week 5 (F)</b>  | ●   |                        | ●                                   |                   |
| <b>Week 6 (F)</b>  |   |                        |                                     |                   |
| <b>Week 7 (F)</b>  | ●   |                        | ●                                   | ●                 |
| <b>Week 8 (F)</b>  |   |                        |                                     |                   |
| <b>Week 9 (F)</b>  |   |                        |                                     |                   |
| <b>Week 10 (F)</b> |   | ●                      |                                     |                   |
| <b>Week 11 (F)</b> |   | ●                      |                                     |                   |

#### NOTES

- Foliar spray 200 gallons of solution per acre
- Foliar spray for contact of entire shoot – leaves and stems down to soil
- 48 hours after ZeroTol 2.0/OxiPhos/AzaGuard tank mix spray, apply BioCeres WP at 2 lbs. per 100 gallons plus non-ionic spreader/sticker

- Always follow your state regulations for approved pesticide applications on hemp
- Never tank mix ZeroTol 2.0 with BioCeres WP
- Never add surfactant when spraying AzaGuard
- Spray before 10 am or after 3 pm to avoid stresses associated with high noon sun



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