



BEYOND GREEN BIO520



(V1.0 ) 14 March, 2022

## SIMPLE TEST PROCEDURES FOR BIO 520

### SUGGESTED TEST PROTOCOL & BASIC MEASUREMENT DATA

#### Background

1. Select a sample crop or a variety of crops consistent with what is currently being grown. Identify a comparable crop site to be observed as a control. This control area will be managed as per the usual growing practices.
2. Crops may be indoor or outdoor Drip feed, Hand watered, Field sprayed or grown hydroponically.
3. Keep everything on a small measurable and observable scale.
4. Establish a baseline, soil and crop sample pre-BIO 520 noting yield per plant, size, weight and general condition of produce.
5. Lab chemical analysis of pre-BIO 520 soils and harvested produce.
6. Measure and document weigh and yield.
7. Compare yield using BIO 520 to traditional yield using conventional growing methods (chemical fertilizers, pesticides, herbicides, etc.).
8. Frequently photograph the Test crops throughout and at the end of the grow cycle.
9. Identify any fertilizers, pesticides and any chemicals or additives being deployed listing dosages and volumes?
10. Calculate the average cost of any/all additives per grow cycle.
11. Measure and compare the amount of irrigation water consumed, when fertilizers and/or pesticides are added, during the grow cycle VS. the amount of water consumed (using BIO 520) in growth cycle.
12. Record the time cycle from planting of seed or seedling to harvestable maturity.
13. Record extended time of harvest (earlier beginning and faster growth, and extended period of harvest).
14. Record any incidence of plant disease (mildew, black spot) or infestation. Compare to plants grown with BIO 520.





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15. Test samples:

- a. Using conventional practices and fertilizers/pesticides.
- b. Using BIO 520

### PREPARATION AND APPLICATION

1. Sample #1 (Control): Plants grown without BIO 520 but with normal regimen of fertilizers, growth promoters, water quantity etc.
2. Sample #2 (Test): Plants grown with BIO 520 only. Diluted 1,000 times with water.
3. Sample #3. Optional (Test): Plants grown with BIO 520 diluted 1,000 times with water PLUS the normal regimen of fertilizers.
4. Any reference to BIO 520 in the rest of this document infers BIO 520 diluted 1,000 times with water.
5. Irrigate diluted BIO 520 close to the roots of the sample plants, as per normal hand-watering. Or, infuse via drip irrigation system.
6. For Sample #2 and #3: apply up to 7x normal water (with BIO 520) for the first 14 days or until the plant is visibly established. Then return to **normal** watering volume (with BIO 520 included).
7. Tests in an indoor environment enable controlled conditions of temperature, humidity, water use, etc.
8. Outdoor Tests should follow the same dosage levels and frequency as above. Obviously, performance results may be impacted by weather conditions, wind, rain, temperature, evaporation and insects.

### INFORMATION TO BE RECORDED

1. Record harvested **weight** of end-product yielded from (Test) plants treated with BIO 520.
2. Record harvested weight of end-product yielded from (Control) plants **not** treated with BIO 520.





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3. Performance measurements should be logged and timed to compare like-with-like. For example: measure, record and photograph plants both with, and without, BIO 520 every 14 days, or at intervals as the grower deems appropriate.

### LAYOUT

To obtain the above information and compare to existing practices we suggest using three "Grid Squares" to be set up as follows:

1. Minimum 20 plants per grid square (or a greater or lesser quantity otherwise preferred by the grower) to optimize Test results.
2. In Grid Square #1 (Control): Plants without BIO 520, but with all standard fertilizers and growth promoters applied at whatever dosage rates and watering intervals are routinely applied by the grower.
3. In Grid Square #2 (Test): BIO 520 at 1,000 times dilution with **no other fertilizer**.
4. In Grid Square #3 (Test): BIO 520 at 1,000 times dilution **PLUS** standard nutrients.
5. Each Grid Square must be isolated from others to prevent migration of BIO 520 via commonly shared soil or water and from reaching any adjacent (Control) Grid Square(s).

**Note:** If BIO 520 is sprayed on the stems/leaves of certain plants (for example, cherry tomatoes) at a dilution of 1,000 to 1, we have observed a decline in insect problems and a corresponding reduction of pesticide use.

**Summary:** The objectives of the Test are (i) to determine the ability of BIO 520 to achieve faster growth, (ii) greater volume/yield, (iii) eliminate chemical residues from soil, (iv) provide a single all-natural growth promoter, (v) reduce chemical fertilizer, pesticide and insecticide use and eliminate their costs, and (vi) produce a higher quality chemical-free crop.

The target is to prove that BIO 520 as a **single product (all-in-one) makes the grower's process simpler, easier, with less risk of error, at a lower cost and generating higher profits through increased yields and produce quality.**

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