



BIO 520 Beyond Green®

Technical Data Sheet



Liquid Organic Plant Food

With Minerals and trace elements (TE)

Top quality professional grade works with many applications

Description

BIO 520 Beyond Green® is a dilutable, super-concentrate, chemical-free natural liquid mineral solution for plant cultivation. It enables plants to absorb greater amounts of nutrients, promoting faster growth, increased productivity, and enhanced strength. Additionally, BIO 520 facilitates nitrogen fixation from the air. Composed of water-soluble, natural essential minerals, BIO 520 is enriched with micro minerals pulverized using a proprietary acoustic process, sourced from pressurized volcanic magma and sea sediments.

Key Features and Typical Benefits

- Accelerates plant growth cycle
- Higher Yield and increase productivity
- Cultivation enhancement by increasing size, aroma, taste and flavor in plants
- Promotes rapid uptake of nutrients and Minerals
- Increase plants resistance to harsh weather, capable of growing in different environments
- Can significantly improve plants and remove powdery mildew by foliar spray treatment
- Faster clone and seed germination
- Super-concentrate and easy to use
- Non-toxic, Odor free and safe for Organic Agri use
- BIO 520 is 100% chemical free & is harmless to all forms of life
- OMRI Listed for organic use



www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

+1 (949) 333 3800
info@BG-Bio520.com



Applications

BIO 520 is used for all plants, vegetable, fruit and field crops

Traditional Agricultural Uses:

In open fields, greenhouses, and net houses, BIO 520 protects plants, improves soil properties, helps fix nitrogen, and speeds up photosynthesis. This acceleration is due to increased electromagnetic conductivity from the presence of BIO 520, contributing to reduced water consumption.



Organic Agriculture Use:

BIO 520 is utilized in organic agriculture to enhance plant immunity and resistance to fungal diseases. It strengthens plants against adverse climatic conditions and helps achieve high-quality organic production with excellent properties. Shielding crops from the uptake of harmful chemicals accumulated from decades of conventional use of chemical fertilizers, insecticides, fungicides and herbicides.



BIO 520

BEYOND GREEN



Hydroponics Use:

BIO 520 can be used alone or in conjunction with any other A, B solutions or system. It accelerates early germination by 2-3 days (10%), increases growth speed and greening rate, promotes a healthy and substantial vegetative mass, and enables early maturity and harvesting by 7-10 days (20%). Hydroponic farm owners are advised to use BIO 520 Beyond Green for optimal results.



Ornamental Plants and Green Spaces Use:

BIO 520 Beyond Green enhances the growth and flowering of ornamental plants, increasing their immunity and resistance to natural conditions, as well as to salinity and acidity in the soil or growing medium. It serves as an excellent minerals source for herbs in green spaces, eliminating the need for additional nutrients.



Trees Use:

BIO 520 Beyond Green has proven to be highly beneficial for fruit trees. It protects the roots, reduces water consumption, increases resistance, improves fruit quality in terms of appearance, texture, taste, and size, and significantly boosts production.



www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

+1 (949) 333 3800
info@BG-Bio520.com



Directions for Use - with Drip irrigation

Rate of Use:

The standard dilution rate is 1 (BIO 520 Beyond Green) to 1000 (water). Irrigation water must be chlorine-free and preferably soft water.

This can be varied according to crop needs in the range of 1 (BIO 520 Beyond Green) to 4000 (water). Use the lower rate for sensitive subjects (pot plants under glass) and the higher rate for rapidly growing plants in outdoor soils. For seed germination stage, use 1 (BIO 520 Beyond Green) to 500 (water).

- BIO 520 Beyond Green® works with any other system
- Never harms the plants, regardless of the quantity or dilution used.
- BIO 520 don't block filters, screens or any size nozzles.

Drip Irrigation: 0.5 - 2 liters (2 quarts) per Feddan (0.420 hectare)
Dilution Rate: 0.25 - 1 cm³ (ml) per liter (2 quarts) of water

*Note: Use the higher rate on high-value crops, poor soil, and/or for potentially increased crop yield and quality benefit.

Application:

BIO 520 Beyond Green® can be used alongside other water-soluble fertilizers or independently. Typically, BIO 520 is administered via a feeding tank. Add the calculated amount of BIO 520 to the feeding tank, fill with water, and apply through the drip irrigation system. An approximate guideline is 1 liter (approximately 2 quarts) per 4200 square meters (0.42 hectare).

Frequency of use:

During active growth periods, BIO 520 Beyond Green® can be applied from the onset of growth with every irrigation or up to three times per week, depending on the plant's developmental stage and environmental conditions.

Always read the label on the product you purchase before use.

www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

+1 (949) 333 3800
info@BG-Bio520.com





Directions for Use - with Foliar Treatment / Feeding

Plants primarily absorb nutrients through their root systems; however, foliar uptake—where nutrients are absorbed through the leaves—is also a viable pathway. Foliar feeding can provide a rapid nutrient boost to crops, especially when the root system is compromised by factors such as drought, disease, pest infestation, or other stressors. It is well-established that foliar application of nutrients can effectively address deficiencies and support plant growth during critical periods. Additionally, washing leaves can remove dust and other particulates, thereby enhancing photosynthetic efficiency by improving light absorption, particularly in environments where dust accumulation is a concern.

BIO 520 Beyond Green® is designed for foliar application using various spraying equipment, including spray machines, hand or backpack sprayers, and knapsack sprayers. It has demonstrated exceptional efficacy in enhancing plant vitality.

Apart from nutritional advantages, BIO 520 Beyond Green® is also effective in treating and mitigating powdery mildew through foliar spray applications.

Rate of Use: For young plants, dilute 2.5 ml of BIO 520 Beyond Green® per 1 liter of water. The dosage may be incrementally increased for mature plants up to 3 ml per liter of water.

- BIO 520 Beyond Green® Compatible with all existing systems
- Safe for plants in any concentration or dilution.
- Does not clog filters, screens, or nozzles of any size.

Foliar treatment: Apply 2 - 3 cm³(ml) per 1 Liter (32 oz) of water

Application: Add BIO 520 Beyond Green® to the sprayer tank mixed with filtered water as per the recommended dilution. Ensure thorough coverage of all foliage, spraying from top to bottom. Adhere to the following best practices:

- Utilize nozzles that generate a fine mist.
- Apply just enough solution to moisten the foliage without excessive runoff.
- Spray in calm weather conditions, avoiding peak sunshine or high temperatures. Optimal application times are late afternoon or evening.
- Delay spraying if rain is expected. If rainfall occurs within 4 hours post-application, re-spray the crop after 3 to 4 days.

www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

 +1 (949) 333 3800
 info@BG-Bio520.com



**Frequency of use:**

Apply BIO 520 Beyond Green® throughout the active growth stages of the plant, starting from sprouting, through vegetative and budding phases, pre-flowering, and ripening stages. Weekly applications are recommended when feasible.

Feeding Chart for Foliar Application with BIO 520 Beyond Green®:

Crop	Dosage Ratio (ml/liter)	Start Time	Application Frequency	Duration
Cucumber	1:1 to 2.5:1	First week	Twice per month	Germination to harvest
Tomato	1:1 to 2.5:1	First week	Weekly	Germination to harvest
Capsicum	1:1 to 2.5:1	First week	Twice per month	Germination to harvest
Corn	1:1 to 2.5:1	First week	3 times per month	Germination to harvest
Mango	2.5:1 to 3:1	First week	Monthly	Germination to harvest
Grape	2.5:1 to 3:1	First week	Monthly	Germination to harvest

Always read the label on the product you purchase before use.

Directions for Use - with Hydroponics**Rate of Use:**

The recommended dilution rate for hydroponic application is 1:1000 (BIO 520 Beyond Green® to water). It is imperative to use chlorine-free irrigation water, with reverse osmosis (RO) water being the preferred choice to ensure optimal nutrient absorption.

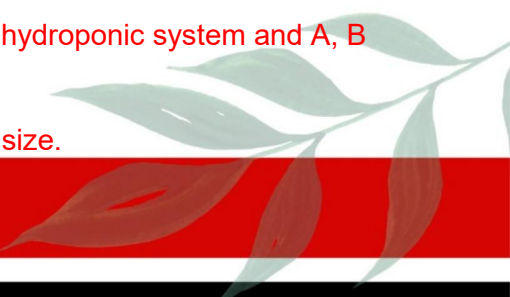
Adding BIO 520 to the feeding water tanks significantly enhances plant vitality. Studies show that combining BIO 520 with foliar treatment further promotes healthier and faster plant growth.

- BIO 520 Beyond Green® is compatible with any hydroponic system and A, B nutrient solutions.
- Safe for plants in any concentration or dilution.
- Does not clog filters, screens, or nozzles of any size.

www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

+1 (949) 333 3800
info@BG-Bio520.com





Hydroponics Dosage: 0.5 - 1 Liter of BIO 520 per 1000 liters (approximately 264 gallons) of water

Foliar Treatment Dosage: Apply 2 - 3 cm³ (ml) per 1 Liter (approximately 32 ounces) of water.

Application: Mix one gallon of BIO 520 Beyond Green® into a 1000-gallon RO water tank along with the standard nutrient mix. Replenish with RO water weekly as required. Introduce an additional gallon of BIO 520 at the midpoint of the growth cycle—during the second week for lettuce and the first month for tomatoes or cucumbers.

- Frequency of use:**
- For leafy greens such as lettuce and basil, apply BIO 520 Beyond Green® bi-weekly.
 - For fruiting plants like tomatoes and cucumbers, monthly applications are recommended.
 - For foliar treatments, a minimum of two applications per growth cycle is advised.

Always read the label on the product you purchase before use.

Directions for Use - with House Plants and Flowers Gardens

Rate of Use: The standard rate is 5 ml per gallon of water



Apply one cap into one Gallon watering can and water your plants as usual

www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

+1 (949) 333 3800
info@BG-Bio520.com



Home Dosage: 1 cap of BIO 520 per 1 gallon (approximately 4 liters) of water

Application:

Just like other plant food, BIO 520 are usually applied via a normal watering can. Simply add one cap amount of BIO 520 to the 1 gallon can, add water and apply liberally to the plant root area.

Frequency of use:

While plants are actively growing, BIO 520 can be applied with every watering.

Always read the label on the product you purchase before use.

Chemical and physical data

Elemental content (% w/w)

Item	Item	UNITS	RESULTS
Potassium	K	%	0.0001
Potassium Oxide	K ₂ O	%	0.0001
Calcium	Ca	%	0.0011
*Calcium Oxide	CaO	%	0.0015
*Magnesium Oxide	MgO	%	0.0027
Magnesium	Mg	%	0.0017
Total Nitrogen	N	%	<0.100

Appearance: Transparent light-yellow liquid

Form: Liquid, Odor: None, pH: N/A

Freezing Point: 32° F (0 °C)

Flash point: None

Solubility in Water: Soluble

VOC (g/L): 0



www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

+1 (949) 333 3800
 info@BG-Bio520.com



General information

Packaging Sizes: 16 FL oz, 1 gal, 5 gal (1 liter, 4 liters, 20 liters) and Bulk: 275 Gal IBC Tote, 330 Gal IBC Tote (200 Liters, 1000 Liters)

Technical service: For further information, assistance and Support Service, please contact Beyond Green at the address below.

Precautions

BIO 520 Beyond Green poses no risks upon skin exposure, is non-toxic, and does not harm living organisms. It is recommended to store BIO 520 in a cool place, away from children and direct sunlight.

Disposal, BIO 520 Beyond Green® is safe for disposal in the environment or through conventional sewage systems or grease traps. It does not leave harmful residues, aligning with its eco-friendly profile. Always dispose of the product in accordance with local regulations and environmental guidelines.

Detailed health and safety information can be found on the relevant Material Safety Data Sheet (MSDS), available upon request from the address below.

Important

The information in this document has been prepared carefully and is provided in good faith. The application, use and processing of any material together with regulatory compliance is the absolute responsibility of the Buyer. All technical information or other advice provided by the Seller in any form is given without warranty to the full extent provided by law.

Please note that products may differ or be unavailable in certain territories.
Copyright ©2024 Beyond Green Inc.

BIO 520 Beyond Green is registered trademarks of Beyond Green Inc. and registered in relevant countries.

www.BG-Bio520.com

3301 W. MacArthur Blvd.
Santa Ana, CA 92704 USA

 +1 (949) 333 3800
 info@BG-Bio520.com

