

# FBS Gold™



Our proprietary technology, FBS Gold, forms the basis of our comprehensive Gold product line designed for growing high value crops in all soilless media including hydroponics, containers, and soil media through drip irrigation.



## Benefits of FBS Gold

Enhances nutrient uptake and movement leading to healthier plants and improved plant growth including:

- » Supports root growth to favor an increase in root number and length
- » Improves chlorophyll production to support the pre-bud and flower formation growth phase
- » Supports trichome development
- » Helps assure greater net photosynthesis and conversion of photosynthates into reproductive plant parts

**FBS GOLD™**



Our FBS Gold technology forms the basis of the 5 products in our comprehensive nutrient system. FBS Gold Bullet is our Nutrient Use Efficiency product. FBS Organics Gold Bullet is our Organic, OMRI listed Nutrient Use Efficiency product. We also have a three-product nutrient program (Gold Foundation, Gold Fill, and Gold Flower) that together address the specific nutrient requirements during the various growth stages of the plant.



# Hydroponic, Container & Drip Irrigation Nutrient System

The FBS Gold nutrient system is a holistic approach to nutrition management by providing the plant with everything it needs from planting through harvest. The rate, ratio, and timing of when each product is applied shifts from week to week to meet the changing demands of the plant as it passes through each phase of development. Nitrogen, Phosphorus, Potassium, Calcium, Sulfur, Boron, Cobalt, Manganese, Magnesium, Molybdenum, Zinc, and Iron all play essential roles in plant development.

## FBS Organics Gold Bullet (0-0-1)

FBS Organics Gold Bullet is our organic nutrient use efficiency product formulated with our FBS Gold technology to promote the rapid uptake, absorption and translocation of nutrients in all types of growing media. It can also be applied via drip irrigation or to the foliage on crops grown in soils and open fields. FBS Organics Gold Bullet can be used alone or in combination with the products in our nutrient system - Gold Foundation, Gold Fill, and Gold Flower.

**GUARANTEED ANALYSIS**  
Soluble Potash (K<sub>2</sub>O) ..... 1.0%



## Gold Bullet (0-0-1)

Gold Bullet is our nutrient use efficiency product formulated with our FBS Gold technology to promote the rapid uptake, absorption and translocation of nutrients in all types of growing media. It can also be applied via drip irrigation or to the foliage on crops grown in soils and open fields. Gold Bullet can be used alone or in combination with the products in our nutrient system - Gold Foundation, Gold Fill, and Gold Flower.

**GUARANTEED ANALYSIS**  
Soluble Potash (K<sub>2</sub>O) ..... 1.0%

## Gold Foundation (5-0-0)

Gold Foundation is a blend of essential nutrients formulated to meet the immediate demands of the plant at the beginning of the growth cycle. The high Nitrogen analysis is important to stimulate seed germination and establish a strong root foundation. Calcium plays a central role in building cell wall strength in the root system. It also helps moderate heat stress and gives support to other nutrients that, when combined, supports a strong and healthy growth.

**GUARANTEED ANALYSIS**  
Total Nitrogen (N) ..... 5.0%  
4.3% Nitrate Nitrogen  
0.7% Ammoniacal Nitrogen  
Calcium (Ca) ..... 5.0%  
Boron (B) ..... 0.02%  
Cobalt (Co) ..... 0.005%  
Manganese (Mn) ..... 0.05%  
Molybdenum (Mo) ..... 0.0007%  
Zinc (Zn) ..... 0.05%  
Iron (Fe) ..... 0.13%  
0.13% Chelated Iron

## Gold Fill (2.5-2.5-5.0)

Gold Fill is a blend of essential nutrients formulated to meet the immediate demands of the plant during the vegetative stage. Once the plant has a solid foundation the goal is to support the plant with everything it needs to proliferate and grow, setting the stage for successful flower development. At this stage, there is also a growing demand for Phosphorus and Potassium.

**GUARANTEED ANALYSIS**  
Total Nitrogen (N) ..... 2.5%  
1.9% Nitrate Nitrogen  
0.6% Ammoniacal Nitrogen  
Available Phosphate (P<sub>2</sub>O<sub>5</sub>) ... 2.5%  
Soluble Potash (K<sub>2</sub>O) ..... 5.0%  
Magnesium (Mg) ..... 1.0%  
Sulfur (S) ..... 1.0%  
Iron (Fe) ..... 0.15%  
0.15% Chelated Iron

## Gold Flower (0-7-7)

Gold Flower is a blend of essential nutrients that address the shifting demands of the plant during the reproductive phase. Once the plants are big enough the nutrient demands shift to favor female flower production. The balance of nutrients are directed towards maximum flower development and the production of essential oils. Phosphorus and Potassium are extremely important and the need for Nitrogen diminishes. This balance of nutrients has the purpose of finishing the growth cycle to achieve greater size, weight, and quality of the reproductive plant parts.

**GUARANTEED ANALYSIS**  
Available Phosphate (P<sub>2</sub>O<sub>5</sub>) .... 7.0%  
Soluble Potash (K<sub>2</sub>O) ..... 7.0%  
Magnesium (Mg) ..... 1.0%  
Sulfur (S) ..... 1.0%  
Iron (Fe) ..... 0.15%  
0.15% Chelated Iron



**Note:** All nutrients in this system are applied throughout the growth cycle but the timing and rates shift depending on the stage of growth. Please see feeding chart for details.

## Feeding Chart - Recirculating Hydroponic Systems

Mix FBS Gold nutrient products based on specific applications by altering the Gold Foundation, Gold Fill, and Gold Flower ratios. Never mix FBS Gold nutrient products together in concentrated form. Add one FBS Gold nutrient product to fresh water with complete adjudication, and then add other FBS Gold nutrients. Adjust nutrient water pH to 5.2-6.5. Adjustment may be required due to water quality. Refer to suggested feeding chart for mixing recommendations.

GROWTH STAGE	SEEDLINGS	VEGETATIVE EARLY	VEGETATIVE	VEGETATIVE TRANSITION	BLOOM EARLY	BLOOM EARLY	BLOOM MID	BLOOM MID	FLOWERING	FLOWERING LATE BLOOM	FLOWERING LATE BLOOM	RIPEN	FLUSH
Week	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Gold Foundation (5-0-0)</b>	15 ml	18 ml	20 ml	15 ml	15 ml	15 ml	15 ml	12 ml	12 ml	5 ml	5 ml	0	0
<b>Gold Fill (2.5-2.5-5)</b>	10 ml	15 ml	15 ml	35 ml	30 ml	15 ml	10 ml	10 ml	10 ml	5 ml	0	0	0
<b>Gold Flower (0-7-7)</b>	0	0	0	10 ml	10 ml	15 ml	20 ml	25 ml	25 ml	30 ml	35 ml	10 ml	0
<b>Gold Bullet (0-0-1)</b>	1.5 ml	1.5 ml	1.5 ml	5 ml	5 ml	5 ml	5 ml	5 ml	5 ml	5 ml	5 ml	0	0

\*All measurements are in mls per one gallon of water (1 gallon = 3.785 litres)

1 teaspoon = 5 ml	1 tablespoon = 15 ml	1 ounce = 30 ml
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FBS Harmony™ can be used as an acidifying buffer to adjust pH down to the meet the ideal pH range.

## Feeding Chart - Field Irrigation

<b>FBS Organics Gold (0-0-1) or Gold Bullet (0-0-1)</b>	Apply a total of 30-60 ounces/acre every 3 weeks during the growing cycle, which can applied by itself or mixed with fertilizer through irrigation systems.
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For all other recommendations consult your local agronomic professional.

