

Controlled Environment Agriculture



FBSciences' Controlled Environment line of products provides a powerful nutrition management system, enhanced by our FBS Transit® nutrient use efficiency technology, for increased nutrient uptake and mobility, resulting in healthier plants and improved yield.

FBSciences' next generation of nutrition solutions for Controlled Environment Agriculture (CEA) combines stage-specific nutrition with FBSciences' proprietary biostimulant technology, FBS Transit, for a holistic approach to nutrition management. The synergies of both ensure the rapid uptake and efficient movement of nutrients to the growing points for healthier plants with improved quality and marketable yields. Our CEA system includes two nutrient use efficiency products - Gold Bullet™ and FBS Organics Gold Bullet™, designed to work as a system along with stage-specific nutrient products Gold Foundation, Gold Fill, and Gold Flower. The rate, ratio, and timing for each product shift from week to week to meet the changing demands of the plant as it passes through each phase of development.

Benefits of FBSciences CEA System

- Increases nutrient uptake and mobility
- Supports root growth to favor an increase in root number and length
- Improves chlorophyll production to support the vegetative stage
- Increases net photosynthesis and conversion of photosynthates into reproductive plant parts
- Improves tolerance to and recovery from abiotic stresses (e.g., salinity stress, heat stress)



FBS Organics Gold Bullet (0-0-1)

FBS Organics Gold Bullet is an OMRI and OIM Listed nutrient use efficiency product for use in organic production, designed for Controlled Environment Agriculture. It is formulated with a proprietary blend of FBS Transit, our patented nutrient use efficiency technology, and other organic formulation enhancers that increase the uptake and mobility of nutrients, as well as improve tolerance to and recovery from abiotic stresses. FBS Organics Gold Bullet can be used alone or in combination with products in our nutrient system - Gold Foundation™, Gold Fill™, and Gold Flower™.

Gold Bullet (0-0-1)

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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 strong and healthy growth.

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 a growing demand for phosphorus and potassium.

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. The balance of nutrients is directed towards reproductive development. 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.

Note: All nutrients in this system are applied throughout the growth cycle but the timing and rates shift depending on the stage of growth.

GUARANTEED ANALYSIS
Soluble Potash (K₂O) 1.0%



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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%
Iron (Fe) 0.13%
0.13% Chelated Iron
Manganese (Mn) 0.05%
Molybdenum (Mo) 0.0007%
Zinc (Zn) 0.05%

GUARANTEED ANALYSIS
Total Nitrogen (N) 2.5%
1.9% Nitrate Nitrogen
0.6% Ammoniacal Nitrogen
Available Phosphate (P₂O₅) ... 2.5%
Soluble Potash (K₂O) 5.0%
Magnesium (Mg) 1.0%
Sulfur (S) 1.0%
Iron (Fe) 0.15%
0.15% Chelated Iron

GUARANTEED ANALYSIS
Available Phosphate (P₂O₅) 7.0%
Soluble Potash (K₂O) 7.0%
Magnesium (Mg) 1.0%
Sulfur (S) 1.0%
Iron (Fe) 0.15%
0.15% Chelated Iron

