



COMMERCIAL PROGRAM



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The Age Old Commercial products and program are the culmination and synthesis of years of research on optimal nutrition for cannabis crops. With products and technologies based on optimal mineral nutrition, and organic-based additives, the Age Old Commercial program provides both high performance and simplicity. With just four concentrate tanks (and their respective injectors), growers from 500 ft² to 500,000 ft² can experience the benefits of the Age Old Commercial program, at a price that will almost certainly fit into most budgets.

COMMERCIAL GROW

7-14-33

GUARANTEED ANALYSIS

Total Nitrogen (N).....7.0%	Manganese (Mn).....0.32%
7.0% Nitrate Nitrogen	0.32% Chelated Manganese
Available Phosphate (P ₂ O ₅).....14.0%	Molybdenum (Mo).....0.008%
Soluble Potash (K ₂ O).....33.0%	Zinc (Zn).....0.28%
Boron (B).....0.07%	0.28% Chelated Zinc
Copper (Cu).....0.20%	Derived from: potassium nitrate,
0.20% Chelated Copper	monopotassium phosphate, boric acid, copper
Iron (Fe).....0.80%	EDTA, iron EDDHA, manganese EDTA,
0.80% Chelated Iron	sodium molybdate, zinc EDTA

COMMERCIAL BLOOM

2-26-41

GUARANTEED ANALYSIS

Total Nitrogen (N).....2.0%	Manganese (Mn).....0.35%
2.0% Nitrate Nitrogen	0.35% Chelated Manganese
Available Phosphate (P ₂ O ₅).....26.0%	Molybdenum (Mo).....0.008%
Soluble Potash (K ₂ O).....41.0%	Zinc (Zn).....0.28%
Boron (B).....0.07%	0.28% Chelated Zinc
Copper (Cu).....0.20%	Derived from: potassium nitrate, dipotassium
0.20% Chelated Copper	phosphate, boric acid, copper EDTA,
Iron (Fe).....0.85%	iron EDDHA, manganese EDTA, sodium
0.85% Chelated Iron	molybdate, zinc EDTA

Age Old Commercial Grow and Age Old Commercial Bloom are products designed to deliver the right amount of nutrients at the right stage of the crop. Commercial Grow is designed to be used during the vegetative stage of the crop, while Commercial Bloom is designed to be used during the reproductive stage. They efficiently deliver nitrogen (N), phosphate (P), potassium (K), boron (B), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo), and zinc (Zn). All of the micronutrients are chelated to ensure they remain available to the plant regardless of the soil pH. In addition to this, all of the inputs are tested for heavy metals to ensure that only the purest minerals are sourced. The products are blended and micronized to ensure that they enter into the solution without any issue.

CALCIUM NITRATE

GUARANTEED ANALYSIS

Total Nitrogen (N).....17.0%	Calcium.....23.5%
16.7% Nitrate Nitrogen	
0.3% Ammoniacal Nitrogen	
Derived from: calcium nitrate	

MAGNESIUM SULFATE

GUARANTEED ANALYSIS

Sulfur (S).....13.0%	Magnesium (Mg).....9.8%
13.0% Combined Sulfur (S)	
Derived from: magnesium sulfate	

Calcium nitrate and magnesium sulfate are perhaps the most efficient ways to deliver nitrate-based nitrogen (N), calcium (Ca), sulfur (S), and magnesium (Mg) to plants. With Age Old Commercial Grow and Bloom providing all of the other high purity minerals, the combination of these products forms the base of the program, with no additional cationic or anionic waste—and therefore no unnecessary osmotic stress on the plants that reduce growth and yields.



COMMERCIAL PROGRAM

COMMERCIAL BIO

1-0-1

GUARANTEED ANALYSIS

Total Nitrogen (N).....	1.0%	Derived from: soy protein hydrolysate, seaweed extract (<i>Ascophyllum nodosum</i>), potassium hydroxide
1.0% Water Soluble Nitrogen		
Soluble Potash (K ₂ O).....	1.0%	

COMMERCIAL MICROBES

CONTAINS NON-PLANT FOOD INGREDIENTS

Soil Amending Ingredients:

1% Total Active Ingredients

BACTERIA: *Bacillus licheniformis*: 1,000,000 cfu/g; *Bacillus pasteurii*: 1,000,000 cfu/g; *Bacillus subtilis*: 1,000,000 cfu/g; *Paenibacillus azotofixans*: 1,000,000 cfu/g

ENDO MYCORRHIZAE: *Glomus intraradices*: 1 prop/g; *Glomus mosseae*: 1 prop/g; *Glomus aggregatum*: 1 prop/g; *Glomus monosporum*: 0.05 prop/g; *Gigaspora margarita*: 0.05 prop/g

99% Total Inert Ingredients

Age Old Commercial Bio is the combination of several distinct technologies. The foundation of the product is a proprietary negatively-charged polymerized amino acid that adsorbs cationic (positively-charged) minerals in the soil and in the solution, and prevents their interaction with anionic (negatively-charged) minerals—which prevents their precipitation. This increases the overall nutrient availability to the plant, which increases the opportunity for yields. In addition to this, Commercial Bio contains plant extracts from two different continents—seaweed sustainably harvested off of the coast of Ireland, and plant saponins sustainably harvested from a species of tree in South America. Both of these plant extracts help condition the soil and soilless media for improved plant performance. Finally, Commercial Bio contains specific amino acids that improve soil conditions for root growth, and increased yields.

Age Old Commercial Microbes is a proprietary combination of beneficial bacteria and endo and ecto mycorrhizae. Commercial Microbes can be used during all growth stages to improve mycorrhizal and bacterial associates with plants, and helps optimize overall plant mass and yield. With many indoor grow environments being relatively sterile, Commercial Microbes can help bring an increase in performance. Many growers either use the product continuously with the daily nutritional program, or use Commercial Microbes on the days of the week where the soil media is flushed with just plain irrigation water.

CONTINUOUS LIQUID FEED

Injection Ratio

	No Injector	1:25	1:100	1:200
Commercial Grow	3.17 g (0.11 oz)	79.25 g (2.8 oz)	317.0 g (11.9 oz)	634.0 g (22.4 oz)
Commercial Bloom	3.17 g (0.11 oz)	79.25 g (2.8 oz)	317.0 g (11.9 oz)	634.0 g (22.4 oz)
Calcium Nitrate	3.71 g (0.13 oz)	92.75 g (3.3 oz)	371.0 g (13.1 oz)	742.0 g (26.2 oz)
Magnesium Sulfate	2.40 g (0.08 oz)	60.0 g (2.1 oz)	240.0 g (8.4 oz)	480.0 g (16.9 oz)
Commercial Bio	8.0 mL (0.27 fl oz)	200.0 mL (6.76 fl oz)	800.0 mL (27.05 fl oz)	1600.0 mL (54.1 fl oz)
Commercial Microbes	0.29 g (0.01 oz)	7.13 g (0.25 oz)	28.5 g (1.0 oz)	57.0 g (2.0 oz)

Suggested rates per gallon.