

Premium Organic Fertilizer with Enhanced Plant Uptake



Enhanced Plant Uptake 38% L-Amino Acids Premium Organic Fertilizer

CSL+ is an innovative organic blend of L-Amino Acids from a combination of soy protein hydrolysate and corn steep liquor. This cutting-edge formulation provides a plethora of benefits from Fulvic and other beneficial organic acids, proteins, enzymes, vitamins, hormones and sugars.

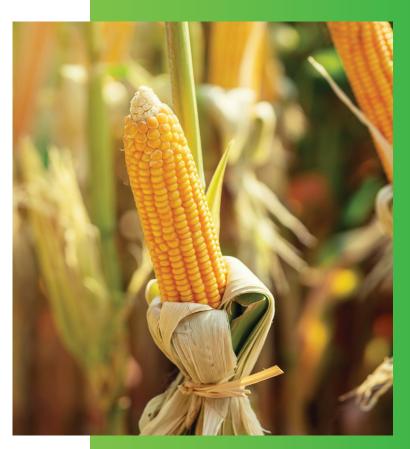
CSL+ is Mother Nature's highly-bioavailable nutrient source with outstanding uptake efficiency **effectively increasing the plant-available N-P-K chemical analysis over other fertilizers** that is excellent for any program - conventional, sustainable or organic.

L-Amino Acids are nature's building blocks of proteins and play a vital role on photosynthesis. They also contribute to many plant functions: cell wall strength, fruit quality, pollination, pollen fertility, hormone synthesis, formation of vegetative tissue, chlorophyll synthesis, stomatal regulation, chelation and much more.

CSL+ is a **100% water-soluble** organic fertilizer that is all-carbon-based, alleviating potential for foliar burns.



Mother Nature's Nutrient Source



Boosts Microbial Biomass and Soil Nutrients Availability

Soil health is vital in today's agriculture industry and improved microbial activity is enhanced by carbon sources such as L-Amino Acids, Fulvic/Humic Acids and Sugars are included in CSL+. Frequent feeding of soil microbes increases the soil's biomass, which in turn improves soil structure and health for stronger plant performance. Microbes are Nature's recyclers and help release tied-up soil nutrients that are not normally plant-available.

Stress Relief and Disease Prevention

Abiotic Stress (hot or cold weather, low or high humidity, frost, floods, etc.) and Biotic Stress (disease and insects) greatly affect plant metabolism which leads to poor plant performance in yields and overall quality. Regular applications of L-Amino Acids prime the plant for prevention or faster recovery from stress-related harm. Other included naturally plant-produced organic acids are highly effective in preventing many plant diseases.

CSL# Features

- 100% Organic and Water Soluble.
- Provides immediately- available nutrients.
- Improves root nutrient uptake.
- Improved resistance to stress.
- Improved yields and quality including shelf life of fruits & vegetables.
- Easy-to-handle in drip and pivot irrigation, hydroponics or sprayers.
- Pleasant odor for use in enclosed environments like greenhouses.
- Great for use on fruits, vegetables, trees, shrubs and turfgrass.
- Animal-friendly.



Benefits

- High carbon source of nutrients that is safe for all types of fruits, vegetables, grasses, trees and shrubs.
- **Provides over 18 L-Amino Acids** plus other organic acids for direct absorption through leaves and roots.
- Highest percentage of plant-absorbable amino acids, peptides and B-complex vitamins.
- Immediately-available Nitrogen, Phosphorous, Potassium and micronutrients for rapid assimilation.
- Gives crops extra energy and resistance during times of stress.
- Seaweed Extract provides natural plant hormones.
- Improves root development, blooms, and fruit set.
- High-efficiency multi-functional organic acids.
- Enhanced plant immunity to stress and disease, and promotes overall health.
- Accelerates production of nucleic acids.
- Enhances photosynthesis and respiration.
- Improves soil Cation Exchange Capacity (CEC).
- Higher and more efficient uptake of nutrients.
- Increases the protein biosynthesis of plants.
- Increases biomass production and crop yields.
- Excellent supply of complexed carbohydrates for soil microbiome.
- Engineered for maximum compatibility and is tank-mixable with most fertilizers and pesticides. Jar testing is recommended to confirm compatibility.

Apply CSL+ especially in periods when crops need a physiological stimulus, such as

- Start of the vegetative cycle as soon as there are sufficient leaves for foliar application.
- Pre-flowering and petal fall.
- Fruit development.



Guaranteed Analysis

Total Nitrogen (N)4%Available Phosphate (as P_2O_5)2%Soluble Potash (K_2O)3%

Derived from: Soy Protein Hydrolysate and Corn Steep Liquor. ALSO CONTAINS NON-PLANT FOOD INGREDIENTS including 4% Seaweed Extract, 2% Fulvic Acid and 5% Molasses.

CSL+ 4-2-3

INDIVIDUAL AMINO ACID VALUES

AMINO ACID	POWDER GRAMS of AMINO ACIDS PER 100G OF PROTEIN	
ALANINE	11.12	
ARGININE	3.61	
ASPARTIC ACID	1.21	
CYSTEINE	0.46	
GLUTAMIC ACID	3.86	
GLYCINE	1.96	
HISTIDINE	2.46	
ISOLEUCINE	1.37	
LEUCINE	2.39	
LYSINE	1.74	
METHIONINE	0.48	
PHENYLALANINE	0.96	
PROLINE	0.96	
SERINE	0.42	
THREONINE	1.56	
TRYPTOPHAN	0.04	
TYROSINE	0.40	
VALINE	1.56	
TOTAL	38.57%	
NITROGEN	4.00%	
PROTEIN	25.00%	

CSL+ is also recommended if crops are exposed to unfavorable conditions (drought, cold, salinity, wind, etc.) and in treatments for plant recovery after damage from storms and other critical periods.

CSL+ is a professional-grade100% plant-based organic fertilizer suitable for soil or foliar applications.

For Maximum Benefit, CSL+ is intended to be applied based on soil test results and in-season plant sap analysis recommendations. If these soil and sap analyses with specific recommendations are not utilized, a general application guide can be found on the next page.

Directions for Use:

- Shake or agitate container to break up any stratification of ingredients to insure a uniform product before dispensing.
- Dilute with water and agitate to a uniform mix. No further agitation is necessary.
- Contact us for any questions concerning irrigation/spray water quality.
- Always jar test before adding working solution to spray or irrigation injection tanks, especially when mixed with other products.

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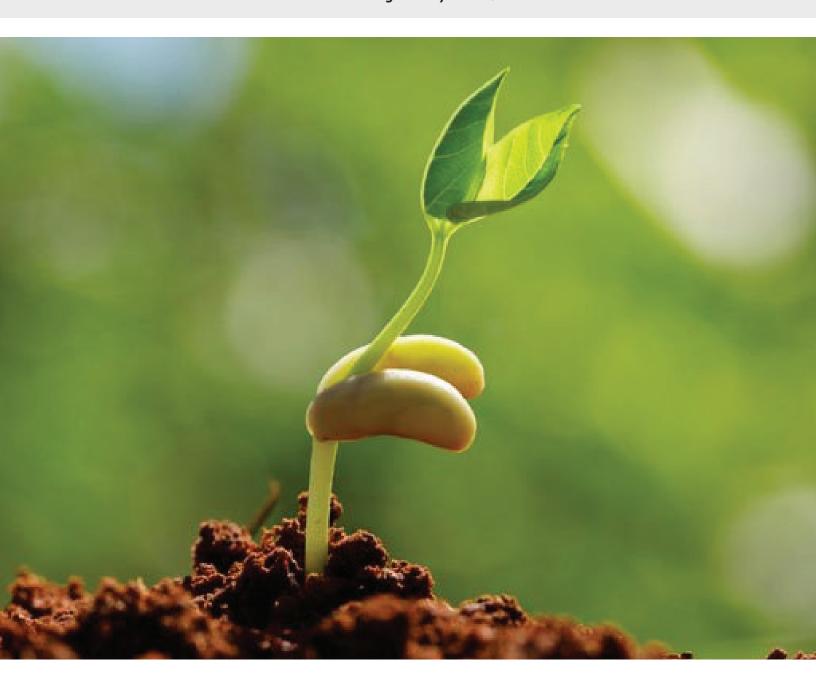
APPLICATION	PROFESSIONAL	HOMEOWNER
AT PLANTING	2-4 quarts/Ac (5-9 L/Ha)	2 oz/ gallon – Repeat weekly
ESTABLISHED	1-2 gallons/Ac (9-18 L/Ha)	4 oz/ gallon – Repeat 2-4 weeks
FOLIAR ¹	1-2 quarts/Ac (2-5 L/Ha)	1 oz/ gallon – Repeat 2-3 weeks
SEED TREATMENT	0.25% or 8 oz/50 lbs. of seed (250 ml/100 kg) dilute with water	
HYDROPONICS	1-2 oz/250 gallons of nutrient solution (30-60 ml/1000 Liters)	

^{*}These are standard recommendations that can vary according to soil properties, cultivated crop and local conditions.

Store in a cool dry place out of direct sunlight.

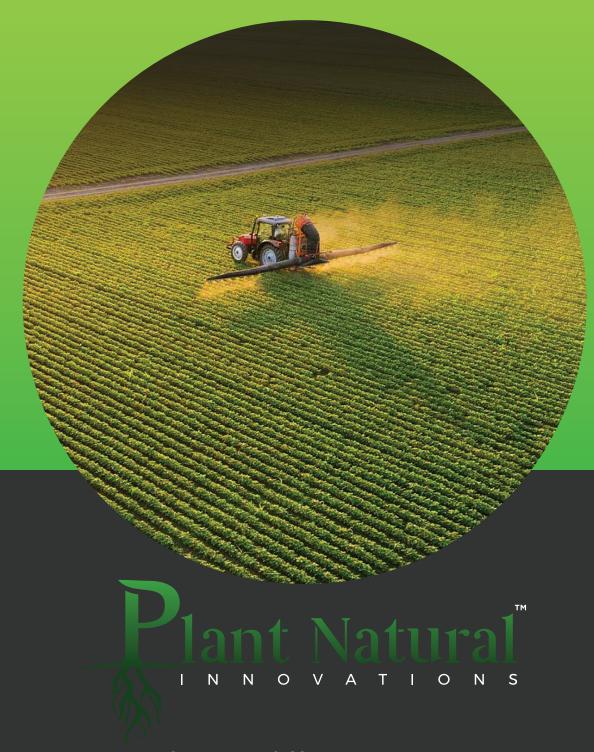
Do not allow to freeze.

Shake or agitate before use.



¹ Surfactant recommended.





FORMULATED & CONTAINERIZED BY:

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