



PRODUCT CATALOG

CONTACT



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ABOUT US

Plant nutrition products, which play a significant role in modern agricultural practices, are considered a key element of the agriculture industry today. The quality, rapid, and uninterrupted supply of fertilizers and agricultural chemicals is of critical importance for agricultural production processes.

Founded in Antalya in 2021, after a very long Research/Development and detailed process, IBT AGRO operates in the field of production and marketing of plant nutrition products that form the basis of agriculture. The company continues its activities in state-of-the-art production facilities in Antalya Organized Industrial Zone, with an area of 6,000 m², equipped with state-of-the-art powder and liquid production lines and machines, and an annual production capacity of 30,000,000 kg/year.

“IBT Agro” and “IBT Group of Companies” continue their operations with a broad field/operations team, in collaboration with business partners across Europe, the Middle East, Asia, Africa, and South America, expanding their trade portfolio day by day in line with long-term, sustainable goals.

At IBT AGRO, we strive to increase the profitability of farmers, improve agricultural practices, and add value to our communities. With a focus on the needs of our farmers, we accelerate our efforts every day, contributing to the sustainable future of agriculture worldwide through our principles of innovation, quality, and environmental responsibility.

By concentrating on the specific needs of our farmers, we provide tailor-made and effective solutions with our plant nutrition products, each uniquely formulated and observed for their effects on plants and soil in the field. Utilizing the latest technology in our production processes, we enhance the quality of our products while minimizing environmental impacts. Customer satisfaction, transparency, and sustainability are the core values that underpin our business.

For a colorful, more productive harvest.

Welcome to IBT AGRO; we are ready to lay the foundation for sustainable agriculture, growing together.

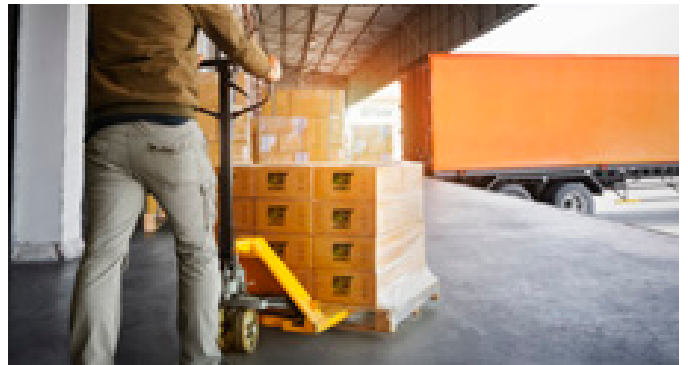
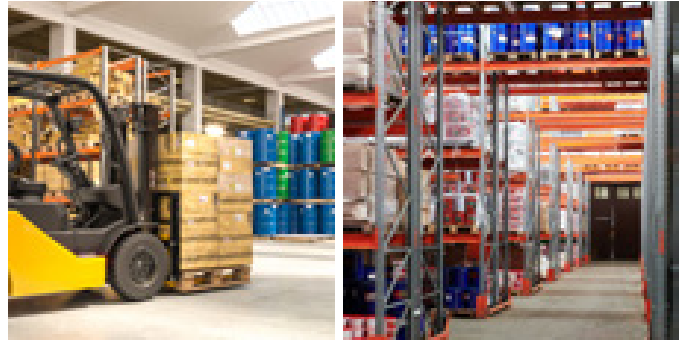


Vision

“ At IBT AGRO, we aspire to transform agricultural practices worldwide by focusing on the sustainability and efficiency of agriculture. Our goal is to become a company that adds value to farmers and the industry through innovative solutions. With a vision to be the cornerstone of agriculture for a healthier future, we aim to shape the future of farming.

Mission

“ IBT AGRO aims to assist farmers in increasing their productivity and using natural resources in a more sustainable manner by employing the latest technology in the agricultural sector. We strive to enhance farmers' profitability and contribute to food security by offering high-quality plant nutrition, protection products, and agricultural solutions.



OUR VALUES

Environmental Responsibility:

At IBT AGRO, we continue our efforts to act in an environmentally conscious manner, embracing eco-friendly practices in our production processes. We are committed to developing sustainable farming practices and placing great importance on preserving natural resources. We take responsibility for long-term environmental sustainability in the agricultural sector.

Customer Focus:

Prioritizing the needs of our customers, we aim to provide them with valuable and effective solutions. Customer satisfaction, product quality, and continuous customer support are among our core principles. By considering customer feedback, we strive to continually improve our products and services.

Scientific Excellence:

With a commitment to maintaining high standards of effectiveness and reliability in our products, we emphasize scientific research and technological advancements. Our technical support team integrates agricultural science and technology to assist farmers in optimizing their plant nutrition processes.

Innovation and Continuous Improvement:

To adapt to the evolving needs of the industry, we maintain a continuous focus on innovation. Engaging in research and development efforts, we not only develop new products but also work towards making our production processes more efficient, thereby enhancing sustainability.

Social Contribution:

Mindful of our responsibilities to communities, we actively support social projects in education, environmental protection, and agriculture. By contributing to these projects, we strive to improve the quality of life for individuals and make a positive impact on the sustainability of the agriculture sector.

With these values, we are dedicated to working towards a more sustainable and efficient future for agriculture.

CONTENTS

07

Water Soluble NPK Fertilizers

Pro Series.....	08
Premium Series.....	08
Foliar Series.....	09
Unico Root 6-30-0+ME....	10
Unico PZnB 3-15-0+ME...10	
Unico NOK 9-0-30+ME....10	

Liquid NPK Fertilizers

Unico Balance 5-5-5.....	12
Unico Balance 7-7-7.....	12
Unico Balance 10-10-10.....	13
Unico Balance 12-12-12.....	13
Unico Balanced 5-5-5+ME.....	14
Unico Balanced 7-7-7+ME.....	14
Unico Balanced 10-10-10+ME.....	15
Unico Balanced 12-12-12+ME.....	15
Unico Potas K 3-0-15.....	16
Unico Potas K 5-0-25.....	16
Unico Phospho N 5-15-0.....	17
Unico Phospho N 5-25-0+ME.....	17
Unico Phos Star 4-26-0+(5CaO).....	18
Unico Phospho N 8-21-0.....	18
Unico Phospho N 18-5-0+(2MgO)+ME..18	

12

Micro Elements Fertilizers

Unico Combi.....	22
Unico Mix Gold.....	22
Unico Combi Plus....	23
Unico Mix.....	23
Unico Mix Base.....	23
Unico Molyborzn.....	24
Unico Zinc Man.....	25
Unico Zinc Bor.....	26
Unico Zinc Bor Plus..	26
Unico Nutrient Zinc..	27
Unico Liquid Ferro..	27
Unico Iron Man.....	28
Unico Cu Power.....	28
Unico Man.....	29
Unico Man Pro.....	29
Unico Bor.....	29
Unico Zinc.....	30
Unico Zinc Plus.....	30

20

32

Organic Fertilizers

Unico Amino X.....	34
Unico Amin Pro.....	34
Unico Vit Amin.....	34
Unico Max Amin.....	35
Unico Amino Tech.....	35
Unico Amin Force.....	35
Unico Ani-Tech.....	36
Unico Amin45.....	37
Unico Amino Plant.....	37
Unico Bio Pro.....	38
Unico Complex.....	38
Unico Base.....	38
Unico Base Plus.....	38
Unico Root Humate.....	39
Unico Humifull.....	40
Unico Lenor Seaweed.....	41
Unico Lenor Seaweed Powder...41	

43

Organomineral Fertilizers

Unico Potasgoal 4-0-20.....	44
Unico Organo 10-0-5.....	45
Unico Organo Balance 8-8-8....	45
Unico Organo 6-20-6.....	46
Unico Organo Balance 4-4-4....	46

48

Other Chemical Fertilizers

Unico Nitro N.....	48
Unico Magne Tech.....	48
Unico Calcium.....	49
Unico Calbor.....	50
Unico K Power.....	51
Unico K Power30.....	51
Unico pH Regulator.....	52
Unico Super Wet.....	52

WATER SOLUBLE NPK FERTILIZERS



What is the Importance of NPK Fertilizers for Plants?

The use of NPK fertilizer has an extremely important role for the plant in the field of plant nutrition for soils poor in nitrogen, phosphorus and potassium. It allows the soil to become rich in microorganisms, strengthen the plant and regulate the pH value. Basically, they are plant nutrition elements that must be taken by the plant for branching-blooming/flower formation and flower health - fruit set, fruit color and aroma. So, what do the basic plant nutritional elements “Nitrogen”, “Phosphorus” and “Potassium”, which are used to increase the health and productivity of the plant, do?

NITROGEN

Nitrogen, plays a key role in a plant's coloring and chlorophyll production, making it an important factor in leaf development. Fertilizers high in nitrogen are often used for grass or other plants where green foliage growth is more important than flowering. At the opposite end of the spectrum, gardeners sometimes encounter the problem of nitrogen depletion—the yellowing of typically green plants often indicates a nitrogen deficiency.



PHOSPHORUS

Phosphorus plays a key role in the growth of roots, blooming, and fruiting, which is why it is an essential nutrient for your plants in spring. Phosphorus contributes to many fundamental plant processes, such as rooting and seed formation.



POTASSIUM

Potassium contributes to the overall health and vigor of plants. It is known to help strengthen plants' ability to resist disease, assist in the movement of water and nutrients in the plant, and can be especially important in areas that experience cold or dry weather.



Premium and Pro Series

Discover the secret of productive harvests and thriving plants with Premium and Pro Series. Our 100% water-soluble 25 kg powder NPK fertilizers, full of essential nutrients, appeal to all types of plants with a wide variety of formulations and are the key to unlocking the full potential of your soil and plants.

Balanced Nutrition: Our fertilizers are meticulously formulated to provide the perfect balance of Nitrogen (N), Phosphorus (P) and Potassium (K). This balanced combination promotes robust root development, healthy leaves and vibrant flowers.

Increased Yield: Maximizes your crop yield with our nutrient-rich fertilizers. The carefully calibrated NPK ratio ensures your plants receive the exact nutrients they need at each growth stage, leading to higher productivity.

Versatility: Whether you are an experienced farmer or home gardener, our NPK fertilizers are versatile and suitable for a variety of crops, vegetables and flowers. From lush green lawns to thriving orchards, our product adapts to your specific needs.

Rapid Absorption: Our finely powdered formulations provide rapid support to your plants by providing rapid nutrient absorption, resulting in a visibly healthier and stronger growth experience in a short time.

Cost Effective: Investing in our NPK fertilizers is an investment in the success of your crop. You get more for your money thanks to the high concentration of nutrients per kilogram.

Environmentally Friendly: Our commitment to sustainability is also reflected in our environmentally friendly production processes. You will feel safe knowing that your crops are growing with a product that respects the environment.



PRO Series

NPK Pro Series ensures the easy absorption of NPK and micronutrients by plants, thanks to its special chelating agents and the use of high-quality raw materials. It creates optimal conditions in the plant root zone with its unique additives and low pH, enabling plants to uptake nutrients at their most effective levels. During cold weather and periods of significant temperature fluctuations between day and night, NPK Pro Series helps plants navigate through these challenges with maximum performance, minimizing stress.

Guaranteed Content (%w/w)	20-20-20	18-18-18	20-10-20	10-40-10	15-5-30	16-8-24	15-30-15
Total Nitrogen (N)	20	18	20	10	15	16	15
Ammonium Nitrogen (NH ₄ -N)	3,9	8	8	7,6	6,5	4,9	8,4
Nitrate Nitrogen (NO ₃ -N)	5,9	10	12	2,4	8,5	8,1	6,6
Urea Nitrogen (NH ₂ -N)	10,2	-	-	-	-	3	-
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	20	18	10	40	5	8	30
Water Soluble Potassium Oxide (K ₂ O)	20	18	20	10	30	24	15

Guaranteed Content (% w/w)	10-0-40	19-19-19	10-52-10	5-5-45	15-15-15	10-5-40	13-40-13
Total Nitrogen (N)	10	19	10	5	15	10	13
Ammonium Nitrogen (NH ₄ -N)	-	3,5	6,8	1,4	5	2	8,7
Nitrate Nitrogen (NO ₃ -N)	-	-	-	-	10	8	4,3
Urea Nitrogen (NH ₂ -N)	10	15,5	3,2	3,6	-	-	-
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	-	19	52	5	15	5	40
Water Soluble Potassium Oxide (K ₂ O)	40	19	10	45	15	40	13

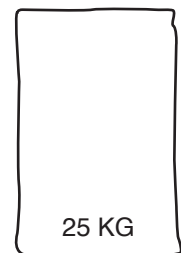
PREMIUM Series

NPK Premium Series ensures the easy absorption of NPK and micronutrients by plants, thanks to its special chelating agents and the use of high-quality raw materials. It creates optimal conditions in the plant root zone with its unique additives and low pH, enabling plants to uptake nutrients at their most effective levels. Trace elements are chelated with EDTA for the highest efficacy, making them quickly and easily available to the plant. Through complete solubility in drip fertilizers and different formulations, it addresses plant issues in every growth stage. During cold weather and periods of significant temperature fluctuations between day and night, NPK Premium Series helps plants navigate through these challenges with maximum performance, minimizing stress.



Guaranteed Content (% w/w)	20-20-20+ME	18-18-18+ME	20-10-20+ME	10-40-10+ME	15-5-30+ME	16-8-24+ME	15-30-15+ME
Total Nitrogen (N)	20	18	20	10	15	16	15
Ammonium Nitrogen (NH ₄ -N)	3,9	8	8	7,6	6,5	4,9	8,4
Nitrate Nitrogen (NO ₃ -N)	5,9	10	12	2,4	8,5	8,1	6,6
Urea Nitrogen (NH ₂ -N)	10,2	-	-	-	-	3	-
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	20	18	10	40	5	8	30
Water Soluble Potassium Oxide (K ₂ O)	20	18	20	10	30	24	15
Water Soluble Boron (B)	-	-	-	0,01	0,01	0,01	-
Water Soluble Copper (Cu) Chelated with EDTA	0,02	0,02	0,01	0,004	0,02	0,01	-
Water Soluble Iron (Fe) Chelated with EDTA	0,05	0,05	0,05	0,04	0,02	0,05	0,02
Water Soluble Manganese (Mn) Chelated with EDTA	0,02	0,02	0,02	0,02	0,02	0,02	0,01
Water Soluble Molybdenum (Mo)	-	-	-	0,001	0,001	-	-
Water Soluble Zinc (Zn) Chelated with EDTA	0,02	0,02	0,02	0,03	0,02	0,02	0,02

Guaranteed Content (% w/w)	10-0-40+ME	19-19-19+ME	10-52-10+ME	5-5-45+ME	15-15-15+ME	10-5-40+ME	13-40-13+ME
Total Nitrogen (N)	10	19	10	5	15	10	13
Ammonium Nitrogen (NH ₄ -N)	-	3,5	6,8	1,4	5	2	8,7
Nitrate Nitrogen (NO ₃ -N)	-	-	-	-	10	8	4,3
Urea Nitrogen (NH ₂ -N)	10	15,5	3,2	3,6	-	-	-
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	-	19	52	5	15	5	40
Water Soluble Potassium Oxide (K ₂ O)	40	19	10	45	15	40	13
Water Soluble Boron (B)	0,01	0,01	0,02	0,02	-	-	0,01
Water Soluble Copper (Cu) Chelated with EDTA	0,01	-	0,02	0,05	0,02	0,02	0,02
Water Soluble Iron (Fe) Chelated with EDTA	-	0,02	0,02	-	0,05	0,05	0,05
Water Soluble Manganese (Mn) Chelated with EDTA	0,01	0,01	0,01	0,05	0,02	0,02	0,05
Water Soluble Molybdenum (Mo)	-	-	0,002	-	-	-	0,001
Water Soluble Zinc (Zn) Chelated with EDTA	0,01	0,01	0,02	0,01	0,02	0,02	0,02



FOLIAR Series



Guaranteed Content	(%w/w)	20-20-20	18-18-18	15-30-15	10-0-40	16-8-24	10-40-10
Total Nitrogen (N)		20	18	15	10	16	10
Ammonium Nitrogen (NH ₃ -N)		4	8	8,4	-	5	8
Nitrate Nitrogen (NO ₃ -N)		6	10	6,6	-	8	2
Urea Nitrogen (NH ₂ -N)		10	-	-	10	3	-
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)		20	18	30	-	8	40
Water Soluble Potassium Oxide (K ₂ O)		20	18	15	40	24	10

Unico Foliar Series ensures the easy absorption of NPK and micronutrients by plants, thanks to its special chelating agents and the use of high-quality raw materials. It creates optimal conditions in the plant root zone with its unique additives and low pH, enabling plants to uptake nutrients at their most effective levels. During cold weather and periods of significant temperature fluctuations between day and night, Unico Foliar Series helps plants navigate through these challenges with maximum performance, minimizing stress.



“Unico Root” and “Unico PZnB” promote the healthy proliferation of new and absorbent capillaries. It has a positive effect on the regeneration process after the treatment of wounds caused by the root parts of various places. It encourages the plant in periods when climatic conditions restrict plant development. It solves the problems caused by root pests as a result of incorrect fertilization and irrigation. It keeps root development constantly alive. Starting from the germination power of the seed, soil structure, adverse climatic conditions, soil pH, regulations in nutrient uptake and abundance of roots in the soil prevent wilting and regular deterioration from pests and diseases.



**Unico Root 6-30-0+ME
NP FERTILIZER BLENDED**

Guaranteed Content	% w/w
Total Nitrogen (N)	6
Ammonium Nitrogen (NH ₃ -N)	6
Neutral Ammonium Citrate and Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	30
Water Soluble Boron (B)	0,5
Water Soluble Iron (Fe)	2,5
Water Soluble Manganese (Mn)	1
Water Soluble Zinc (Zn)	4,5



**Unico PZnB 3-15-0+ME
NP FERTILIZER BLENDED**

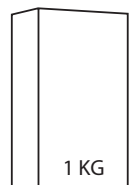
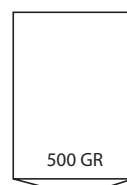
Guaranteed Content	% w/w
Total Nitrogen (N)	3
Ammonium Nitrogen (NH ₃ -N)	3
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	15
Water Soluble Zinc (Zn)	10
Water Soluble Boron (B)	5



**Unico NOK 9-0-30+ME
NK FERTILIZER BLENDED**

Guaranteed Content	% w/w
Total Nitrogen (N)	9
Ammonium Nitrogen (NH ₃ -N)	9
Water Soluble Potassium Oxide (K ₂ O)	30
Water Soluble Zinc (Zn)	6

“Unico NOK 9-0-30+ME” provides plants with a vital nutrient, Potassium, which is essential for the life and development of plants, along with a high concentration of Potassium in its content. Potassium plays a crucial role in the activation of enzymes and coenzymes, photosynthesis, protein formation, and sucrose transfer in plants. It enhances the coloration of fruits and supports fruit quality, contributing to the improvement of the aroma and overall quality of the fruit by promoting the development of plant tissues. Additionally, it extends the shelf life of fruits that are sensitive to storage, both on the shelf and in storage.



LIQUID NPK SERIES



UNICO BALANCE SERIES

Unico Balance series is produced to support growth and development in cases where plants cannot benefit sufficiently from the nutrients in the soil due to various negativities (insufficient moisture, high pH, low soil temperature, etc.). At the same time, since the nutritional elements are homogeneous, it is aimed for the homogeneous growth of the plant to which it is applied and physiological disorders in the plant are prevented by preventing unbalanced nutrition. It increases root development, flowering and fruit set. It gives the plant great resistance to cold and diseases.



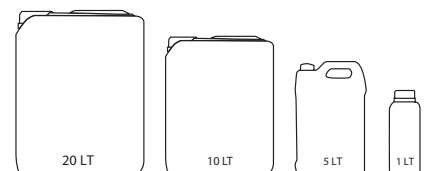
Unico Balance 5-5-5 NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	5
Urea Nitrogen (NH ₂ -N)	5
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	5
Water Soluble Potassium Oxide (K ₂ O)	5



Unico Balance 7-7-7 NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	7
Nitrate Nitrogen (NO ₃ -N)	3
Urea Nitrogen (NH ₂ -N)	4
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	7
Water Soluble Potassium Oxide (K ₂ O)	7



UNICO BALANCE SERIES

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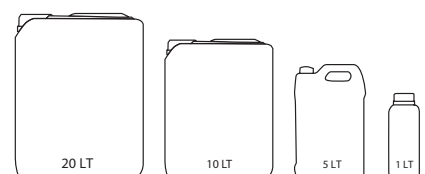
Unico Balance 10-10-10 NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	10
Urea Nitrogen (NH ₂ -N)	10
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	10
Water Soluble Potassium Oxide (K ₂ O)	10



Unico Balance 12-12-12 NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	12
Urea Nitrogen (NH ₂ -N)	12
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	12
Water Soluble Potassium Oxide (K ₂ O)	12



UNICO BALANCED SERIES

Trace elements contribute to the productivity of plants by providing them with the minerals they need. Elements such as zinc, iron, boron, copper, manganese and molybdenum contribute to the balanced nutrition of the plant. Thus, the grown plant becomes more productive and healthy. Unico Balanced series is produced to support growth and development in cases where plants cannot benefit sufficiently from the nutrients in the soil due to various negativities (insufficient moisture, high pH, low soil temperature, etc.). The trace elements contained in the product are chelated with EDTA to provide the highest effect. Thus, it can be quickly and easily taken up by the plant. At the same time, since the nutritional elements are homogeneous, it is aimed for the homogeneous growth of the plant to which it is applied and physiological disorders in the plant are prevented by preventing unbalanced nutrition. It increases root development, flowering and fruit set. It gives the plant great resistance to cold and diseases.



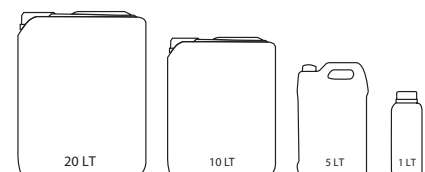
Unico Balanced 5-5-5+ME NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	5
Urea Nitrogen (NH ₂ -N)	5
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	5
Water Soluble Potassium Oxide (K ₂ O)	5
Water Soluble Copper (Cu) chelated with EDTA	0,01
Water Soluble Iron (Fe) chelated with EDTA	0,01
Water Soluble Manganese (Mn) chelated with EDTA	0,02
Water Soluble Zinc (Zn) chelated with EDTA	0,001



Unico Balanced 7-7-7+ME NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	7
Nitrate Nitrogen (NO ₃ -N)	3
Urea Nitrogen (NH ₂ -N)	4
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	7
Water Soluble Potassium Oxide (K ₂ O)	7
Water Soluble Copper (Cu) chelated with EDTA	0,01
Water Soluble Iron (Fe) chelated with EDTA	0,01
Water Soluble Manganese (Mn) chelated with EDTA	0,02
Water Soluble Zinc (Zn) chelated with EDTA	0,001



UNICO BALANCED SERIES

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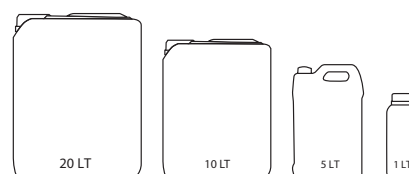
Unico Balanced 10-10-10+ME NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	10
Urea Nitrogen (NH ₂ -N)	10
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	10
Water Soluble Potassium Oxide (K ₂ O)	10
Water Soluble Boron (B)	0,01
Water Soluble Copper (Cu) chelated with EDTA	0,02
Water Soluble Iron (Fe) chelated with EDTA	0,02
Water Soluble Manganese (Mn) chelated with EDTA	0,01
Water Soluble Molybdenum (Mo)	0,001
Water Soluble Zinc (Zn) chelated with EDTA	0,002



Unico Balanced 12-12-12+ME NPK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	12
Urea Nitrogen (NH ₂ -N)	12
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	12
Water Soluble Potassium Oxide (K ₂ O)	12
Water Soluble Copper (Cu) chelated with EDTA	0,01
Water Soluble Iron (Fe) chelated with EDTA	0,01
Water Soluble Manganese (Mn) chelated with EDTA	0,02
Water Soluble Zinc (Zn) chelated with EDTA	0,001



UNICO POTAS K SERIES

Unico Potas K series is a liquid fertilizer containing high amounts of potassium in a complex structure. Thanks to its special structure, its absorption rate is high and it shows high performance in both leaf and base applications. Potassium is a major nutrient needed by plants in high amounts. "Potassium", which is responsible for the activation of more than 60 growth enzymes, is also responsible for the opening and closing function of the stomatal pores in the leaves. Some of the other functions of potassium include vital functions such as protein and starch synthesis, nutrient and sugar transportation, regulation of photosynthesis, and water transportation.

Unico Potas K series provides potassium, which is very important for the development and health of plants, in high amounts and in a complex structure. It is recommended to increase root development, plant development, product quality, disease resistance, shelf life, drought resistance and yield.



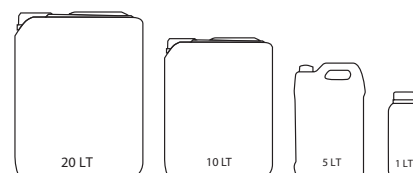
Unico Potas K 3-0-15 NK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	3
Urea Nitrogen (NH ₂ -N)	3
Water Soluble Potassium Oxide (K ₂ O)	15



Unico Potas K 5-0-25 NK FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	5
Urea Nitrogen (NH ₂ -N)	5
Water Soluble Potassium Oxide (K ₂ O)	25



UNICO PHOSPHO N SERIES

Phosphorus, which plays an important role in the biochemical and energy metabolism of plants, increases the resistance of plants to diseases and pests by making tissues stronger. Phosphorus strengthens the root development of plants, making them more resistant to soil pathogens.

Therefore, Unico Phospho N series increases flowering and the number of eyes in the plant, while also ensuring continuous fruit formation. By strengthening root development, it enables the plant to benefit from water and nutrients from the soil more effectively. Thus, it helps the growth and development of the plant. It contributes to the development of durable plants by activating the necessary enzymes.



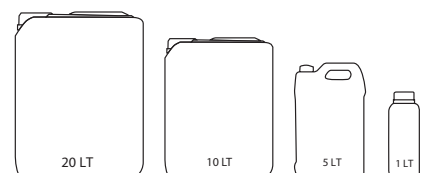
Unico Phospho N 5-15-0 NP FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	5
Ammonium Nitrogen (NH ₃ -N)	3
Nitrate Nitrogen (NO ₃ -N)	2
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	15



Unico Phospho N 5-25-0+ME NP FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	5
Urea Nitrogen (NH ₂ -N)	5
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	25
Water Soluble Zinc (Zn)	2





Unico Phos Star 4-26-0+(5CaO) NP FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	4
Nitrate Nitrogen (NO ₃ -N)	4
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	26
Water Soluble Calcium Oxide (CaO)	5



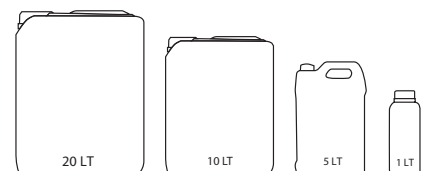
Unico Phospho N 8-21-0 NP FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	8
Ammonium Nitrogen (NH ₃ -N)	2
Urea Nitrogen (NH ₂ -N)	6
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	21



Unico Phospho N 18-5-0+(2MgO)+ME NP FERTILIZER SOLUTION

Guaranteed Content	% w/w
Total Nitrogen (N)	18
Urea Nitrogen (NH ₂ -N)	18
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	5
Water Soluble Magnesium Oxide (MgO)	2
Water Soluble Manganese (Mn)	0,5
Water Soluble Zinc (Zn)	0,5



MICRO ELEMENT FERTILIZERS



These elements, also known as “Micro Elements” or “Trace Elements”, are very important for plant nutrition. Plants use the trace elements iron (Fe), manganese (Mn), molybdenum (Mo), zinc (Zn), copper (Cu), and boron (B). These elements are important for all living forms; it is transferred to soils deficient in trace elements through trace element fertilizers.

Trace elements are very important to ensure continuous and healthy growth of plants. Trace elements have various functions for a plant.

1. IRON (Fe)

Functions of Iron in Plants:

- It plays an active role in the transformation of chlorophyll.
- It is effective in the formation of chloroplastic protein.
- It acts as an enzyme and co-enzyme.

Iron Deficiency Symptoms:

- Deficiency is first seen in young leaves.
- Deficiencies can be expected in areas with high lime content, high pH or excessive phosphorus fertilization.
- Typically, chlorosis (yellowing) occurs between the veins in young leaves, and the veins remain green. When severe, the veins may also turn yellow and the leaf may turn completely white.

2. MANGANESE (Mn)

Manganese's Functions in Plants and Deficiency Symptoms:

- It helps the formation of chloroplast together with iron. In its deficiency, deterioration in the chloroplast and yellow spots on the leaf blade are observed.
- It is effective in the formation of chloroplastic protein.
- It acts as an enzyme and co-enzyme.
- It is necessary for the electron transfer of enzymes.

3. MOLYBDENUM (Mo)

Functions of Molybdenum in Plants:

- Helps the formation of Vitamin C (Ascorbic Acid).
- It prevents the accumulation of nitrate by reducing nitrate to ammonium through its enzyme activity and takes part in nitrogen fixation.
- It is effective on phosphorus metabolism. In its deficiency, organic phosphorus turns into inorganic phosphorus. is transforming.

Molybdenum Deficiency Symptoms:

- Deficiency symptoms are similar to nitrogen and show themselves primarily on older leaves.
- The only difference from nitrogen deficiency is that the leaf edges dry out and curl, in addition to the yellowing between the veins.
- Leaf blade width decreases. Small and differently shaped leaves are formed.
- The flowers are pale in colour, the plant is small and has a parched appearance.
- Diseases affect the plant more quickly.

4. ZINC (Zn)

Functions of Zinc in Plants:

- It is necessary for the formation of chlorophyll.
- It takes part in the transportation of carbohydrates and sugar.
- It is necessary for hormonal activities and is the structural element of auxin.
- It has an effect on the uptake of water into the plant.

Zinc Deficiency Symptoms:

- Yellow spots on the leaves in the middle or at the tip of the shoot, and in advanced cases, drying in these spots,
- Narrowing between the nodes and stunting of the plant,
- Decrease in leaf length, deformity in shape and formation of offset leaves in some plants,
- Flagella and rosette formation on the shoots of fruit trees,
- Small swellings in the roots and collection of capillary roots at the root tip.

5. COPPER (Cu)

Functions of Copper in Plants:

- It is necessary for the formation of chlorophyll. It regulates carbon dioxide uptake and is effective in photosynthesis.
- It is found in the structure of many enzymes. It is important for protein production.
- It is a catalyst for respiration.
- It ensures balancing of water movement in the plant.
- It takes part in the formation of the cell wall.
- It is necessary for normal flower formation and seed production.

Copper Deficiency Symptoms:

- Yellowing, sometimes whitening or gray-green appearance in young leaves, drying in advanced cases.
- Yellowing at the shoot tips,
- Bushiness, dwarfing, and decrease in earing in plants.
- Flower deterioration, discoloration, lack of flowers, abscission or absence of flowers.
- Fruit cracking, premature ripening and shedding of fruits.
- Root formation decreases. Root development is prevented.

6. BORON (B)

Functions of Boron in Plants:

- It takes part in the transport and placement of calcium.
- It is necessary for seed formation, fruit set, pollen health and fertilization.
- Helps hormone formation.
- It has an effect on cell division.

Boron Deficiency Symptoms:

- The first symptoms appear on young leaves. Young leaves turn yellow and become deformed.
- The most important symptom is the death of growth points and development stops.
- Fruits are small and distorted.
- Cracks appear on the fruit and these cracks are obvious.
- Flower formation is less, flower abscission may be seen and pollen is reduced.
- Leaf veins become corky, premature leaf fall may occur, fungus occurs in the fruit core or fruit core shell.
- Leaves thicken, color darkens, midrib fungus appears. Leaves and stems are brittle

Unico Combi & Unico Mix Gold

It is a rich nutritional mixture that meets the micronutrient needs of plants in a short time. The trace elements of boron, copper, iron, molybdenum, manganese and zinc in its composition ensure balanced nutrition of the plant. Increases plant height, number of branches and leaf area. It encourages abundant flowering, grain setting and fruit set. It minimizes fruit drop. The highest effect was achieved by chelating the trace elements contained in the product with EDTA. Thus, it can be taken up by the plant quickly and easily. With these features, it creates the infrastructure that will create high efficiency and quality in the plant.



Unico Combi

Boron (B), Copper (Cu-Sulphate), Iron (Fe-Sulphate), Manganese (Mn-Sulphate), Molybdenum (Mo) and Zinc (Zn-Sulphate)

Mixture of Micro Plant Nutrients

Guaranteed Content	% w/w
Water Soluble Boron (B)	0,5
Water Soluble Copper (Cu) chelated with EDTA	0,5
Water Soluble Iron (Fe) chelated with EDTA	4
Water Soluble Manganese (Mn) chelated with EDTA	4
Water Soluble Molybdenum (Mo)	0,01
Water Soluble Zinc (Zn) chelated with EDTA	4



Unico Mix GOLD

Boron (B), Copper (Cu-Sulphate), Iron (Fe-Sulphate), Manganese (Mn-Sulphate), Molybdenum (Mo) and Zinc (Zn-Sulphate)

Mixture of Micro Plant Nutrients

Guaranteed Content	w/w
Water Soluble Boron (B)	0,7
Water Soluble Copper (Cu) chelated with EDTA	0,5
Water Soluble Iron (Fe) chelated with EDTA	4
Water Soluble Manganese (Mn) chelated with EDTA	4
Water Soluble Molybdenum (Mo)	0,05
Water Soluble Zinc (Zn) chelated with EDTA	4



Unico Combi Plus, Unico Mix & Unico Mix Base



Unico Combi Plus

Boron (B), Iron (Fe-Sulphate), Manganese (Mn-Sulphate) and Zinc (Zn-Sulphate)
Mixture of Micro Plant Nutrients

Guaranteed Content	w/w
Water Soluble Boron (B)	0,2
Water Soluble Iron (Fe)	4
Water Soluble Manganese (Mn)	3
Water Soluble Zinc (Zn)	3



Unico Mix

Boron (B), Copper (Cu-Sulphate), Iron (Fe-Sulphate), Manganese (Mn-Sulphate) and Zinc (Zn-Sulphate)
Mixture of Micro Plant Nutrients

Guaranteed Content	w/w
Water Soluble Boron (B)	3
Water Soluble Copper (Cu)	2
Water Soluble Iron (Fe)	7
Water Soluble Manganese (Mn)	6
Water Soluble Zinc (Zn)	7



Unico Mix Base

Boron (B), Copper (Cu-Sulphate), Iron (Fe-Sulphate), Manganese (Mn-Sulphate), Molybdenum (Mo) and Zinc (Zn-Sulphate)
Mixture of Micro Plant Nutrients

Guaranteed Content	% w/w
Water Soluble Boron (B)	1
Water Soluble Copper (Cu)	1
Water Soluble Iron (Fe)	5
Water Soluble Manganese (Mn)	7
Water Soluble Molybdenum (Mo)	0,01
Water Soluble Zinc (Zn)	8

It is a rich nutritional mixture that meets the micronutrient needs of plants in a short time. The trace elements of boron, copper, iron, molybdenum, manganese and zinc in its composition ensure balanced nutrition of the plant. Increases plant height, number of branches and leaf area. It encourages abundant flowering, grain setting and fruit set. It minimizes fruit drop. With these features, it creates the infrastructure that will create high efficiency and quality in the plant.



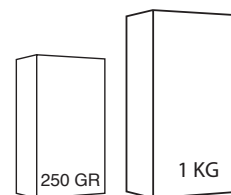


Unico Molyborzn

Boron (B), Cobalt (Co), Molybdenum (Mo) and Zinc (Zn-Sulphate)

Mixture of Micro Plant Nutrients

Guaranteed Content	% w/w
Water Soluble Boron (B)	3
Water Soluble Cobalt (Co)	0,2
Water Soluble Molybdenum (Mo)	7
Water Soluble Zinc (Zn)	10



When cobalt is in low concentrations, its effect on plant growth is quite positive. Especially legume plants are plants that can benefit from nitrogen in the atmosphere, and Cobalt (Co) is an absolutely necessary element for these plants. Because Cobalt (Co) biologically functions as a coenzyme in the nitrogen fixation system. Produced in line with this information, Unico Molyborzn is a microelement mixture that meets the Boron, Zinc, Molybdenum and Cobalt needs of plants and increases flowering, fertilization and fruit set. It promotes perfectly strong flower, pollen, fruit set and fruit formation in plants.

Unico Zinc Man, Unico Zinc Bor & Unico Zinc Bor Plus

Zinc, Manganese, Boron fertilizer is a type of fertilizer that contains essential micronutrients, especially zinc manganese and boron. These micronutrients are vital for the healthy growth and development of plants. Here is a brief overview of the roles these elements play in plant nutrition:

Zinc (Zn)

Enzyme Activation: Zinc is an important component of various enzymes involved in various metabolic processes in plants.

Photosynthesis: It plays a role in the production of chlorophyll and helps the photosynthesis process.

Root Development: Zinc is important for root development and overall plant growth.

Manganese (Mn)

Photosynthesis: Manganese plays a role in the photosynthetic process, the water splitting reaction.

Enzyme Activation: Like zinc, manganese is a cofactor for various enzymes involved in metabolic reactions.

Nitrogen Metabolism: Plays a role in nitrogen metabolism and helps with nutrient uptake.

When soil is deficient in these micronutrients, plants may show signs of deficiency, leading to stunted growth, reduced yields and other problems. Application of Zinc Manganese powder fertilizer can help correct these deficiencies and promote healthier plant growth.

Boron (B)

Cell Wall Formation: Boron is necessary for the formation and stability of plant cell walls.

Reproductive Growth: It plays a crucial role in the development of reproductive structures, including pollen germination and fruit development.

Transport of Sugar: Boron facilitates the transport of sugars within the plant.

Micronutrient fertilizers such as Zinc, Manganese and Boron can be used to ensure that plants receive a balanced source of essential nutrients. These fertilizers can be applied to the soil or sprayed on the leaves, depending on the specific needs of the plants and the recommendations of agricultural experts. The aim is to provide plants with the micronutrients necessary for optimum development and productivity. When the soil is deficient in these micronutrients, plants may show signs of deficiency, which can lead to impaired growth, reduced yields and other problems. Application of Zinc, Manganese, Boron fertilizer will help eliminate these deficiencies and promote healthier plant growth.



Unico Zinc Man
Zinc (Zn-Sulphate) and Manganese (Mn-Sulphate)
Mixture of Micro Plant Nutrients

Guaranteed Content	w/w
Water Soluble Manganese (Mn)	15
Water Soluble Zinc (Zn)	15

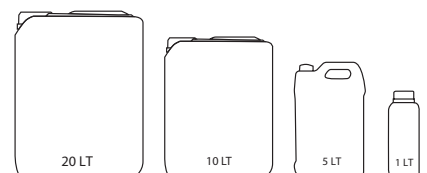
Unico Zinc Man is a mixture of trace elements chelated with organic acids. It is quickly absorbed by the plant and acts quickly. This is %100 water Soluble. It can be used on plants during flowering and fruit color acquisition. It is an excellent product in terms of flower and pollen formation and also providing vibrancy in fruit colors.



Unico Zinc Man
Zinc (Zn-Sulphate) and Manganese (Mn-Sulphate)
Liquid Micro Plant Nutrients Mixture

Guaranteed Content	% w/w
Water Soluble Zinc (Zn)	5
Water Soluble Manganese (Mn)	5

Unico Zinc Man is a mixture of trace elements chelated with organic acids. It is quickly absorbed by the plant and acts quickly. It can be used on plants during flowering and fruit color acquisition. It is an excellent product in terms of flower and pollen formation and also providing vibrancy in fruit colors.





Unico Zinc Bor

Boron (B) and Zinc (Zn-Sulphate)

Mixture of Micro Plant Nutrients

Guaranteed Content	w/w
Water Soluble Boron (B)	5
Water Soluble Zinc (Zn)	15

Unico Zinc Bor is a mixture of trace elements chelated with organic acids. Since it is organically chelated, it is quickly absorbed by the plant and acts quickly. This is %100 water Soluble. It is applied to plants during the flowering period. It is very effective on the number of flowers and bloom. It is used to eliminate Boron and Zinc deficiency in plants.

Unico Zinc Bor

Bor (B) and Zinc (Zn-Sulphate)

Liquid Micro Plant Nutrients Mixture

Guaranteed Content	% w/w
Water Soluble Boron (B)	0,5
Water Soluble Zinc (Zn)	5,5



Unico Zinc Bor is a mixture of trace elements chelated with organic acids. Since it is organically chelated, it is quickly absorbed by the plant and acts quickly. It is applied to plants during the flowering period. It is very effective on the number of flowers and bloom. It is used to eliminate Boron and Zinc deficiency in plants.

Unico Zinc Bor Plus

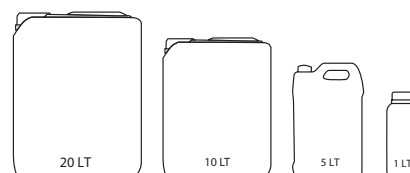
Bor (B) and Zinc (Zn-Sulphate)

Liquid Micro Plant Nutrients Mixture

Guaranteed Content	% w/w
Water Soluble Boron (B)	1
Water Soluble Zinc (Zn)	8



Unico Zinc Bor Plus is a mixture of trace elements chelated with organic acids. Since it is organically chelated, it is quickly absorbed by the plant and acts quickly. It is applied to plants during the flowering period. It is very effective on the number of flowers and bloom. It is used to eliminate Boron and Zinc deficiency in plants.



Unico Nutrient Zinc

Zinc Chelate-EDTA



Guaranteed Content	% w/w
Water Soluble Zinc (Zn)	14
Water Soluble Zinc (Zn) chelated with EDTA	14

In order to maximize the uptake of zinc (Zn), which cannot be absorbed due to reasons such as soil pH and high lime in soil applications, Unico Nutrient Zinc plant nutrients are absorbed faster through stomata and concentration in foliar applications. All Unico Nutrient Zinc is chelated with EDTA. Zinc (Zn) is a catalytic micronutrient as it is an important component of various enzyme systems for protein substance metabolism. Zinc (Zn) also provides the basis for tryptophan synthesis and thus indirectly for auxin synthesis. Zinc (Zn) deficiency shows symptoms such as premature falling of leaves in various fruit-bearing plants, chlorotic (calcareous) areas on the leaves, spotting and rotting of the leaves. The benefits of zinc ensure the formation of a uniform flower structure. It prevents yellowing in plants. It eliminates nutritional deficiencies. It increases the amount of gluten in wheat and grain calibration in rice. It improves fruit quality in vegetables. It increases the resistance of plants against diseases.

Unico Liquid Ferro

Iron Sulphate Solution

Containing Iron Sulphate-EDTA



Guaranteed Content	% w/w
Water Soluble Iron (Fe)	3
Water Soluble Iron (Fe) chelated with EDTA	3

EDTA chelated iron fertilizer solution is a type of iron liquid fertilizer widely used in agriculture and horticulture to correct iron deficiencies in plants. EDTA (ethylene diamine tetraacetic acid) is a chelating agent that binds to iron ions, forming a stable, water-soluble complex. This chelated form of iron is more easily absorbed by plants, making it an effective solution for correcting iron deficiencies in various crops.

Here are some important uses and benefits of EDTA chelated iron fertilizer solution:

Correction of Iron Deficiency: The main purpose of EDTA chelated iron fertilizer is to correct iron deficiencies in plants. Iron is a micronutrient required for chlorophyll synthesis and various metabolic processes. Plants may show symptoms such as chlorosis (yellowing of leaves), reduced growth and reduced yield if they lack sufficient iron.

Foliar Application: EDTA chelated iron is applied as a foliar spray to ensure rapid absorption by plant leaves. This is especially useful when rapid intervention is needed to relieve iron deficiency symptoms.

Soil Application: Can be applied to soil to provide a continuous source of chelated iron over time. This method is suitable for both field crops and container grown plants.

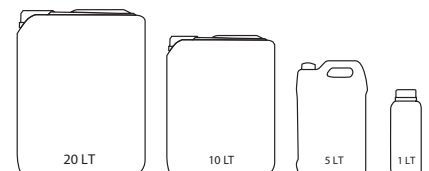
Compatibility with Other Nutrients: EDTA chelated iron is generally compatible with other fertilizers and agrochemicals, allowing for convenient tank mixing with other nutrient solutions.

pH Stability: EDTA chelated iron remains stable over a wide range of pH levels, making it suitable for use in soils with variable acidity or alkalinity.

Prevention of Iron Lockout: In alkaline soils, iron may become less available to plants. EDTA chelation helps prevent iron from forming insoluble compounds in such soils, ensuring plants can get the iron they need.

It is important to follow recommended application rates and guidelines provided by fertilizer manufacturers and agronomists to avoid overapplication and possible adverse effects on plants. Additionally, soil testing can help determine the extent of iron deficiency and guide appropriate fertilizer application practices.

Unico Liquid Ferro meets the iron needs of plants. It ensures the growth of plants and eliminates yellowing caused by iron deficiency. It also protects plants against cold and heat stress.





Unico Iron Man Iron (Fe-Sulphate) and Manganese (Mn-Sulphate) Liquid Micro Plant Nutrients Mixture

Guaranteed Content	% w/w
Water Soluble Iron (Fe)	2
Water Soluble Manganese (Mn)	1

Especially in protected cultivation during the spring and summer months when temperatures and relative humidity are high, problems of elongation occur in plants due to irregular temperature and watering. During these periods, plants may undergo excessive vertical growth, leading to the interruption of generative development.

Unico Iron Man prevents this excessive growth in plants by:

Tightening the internodes.

Thickening the cluster stems to prevent breakage and fruit drop.

Restraining excessive vertical growth and protecting the plant against diseases.

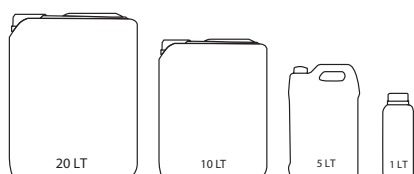
Positively encouraging root development.



Unico Cu Power Copper Fertilizer Solution (Contains Cu-Sulphate EDTA)

Guaranteed Content	% w/w
Water Soluble Copper (Cu)	5
Water Soluble Copper (Cu) chelated with EDTA	5

It is a highly effective source of copper recommended for use in cases of advanced copper deficiency. Copper is one of the essential elements for the synthesis of chlorophyll, the green pigment. Chlorophyll synthesis plays a decisive role in the plant's photosynthetic activity and, consequently, on yield. Copper also facilitates the formation of proteins and vitamins in the plant. In its deficiency, growth and development slow down. Young leaves narrow and shrink, and in fruit trees, the tips of the branches dry out.



Unico Man

Manganese Fertilizer Solution

Containing Manganese Sulphate



Guaranteed Content	% w/w
Water Soluble Manganese (Mn)	3
Water Soluble Manganese (Mn) chelated with EDTA	3

It promotes the expansion of leaf surfaces, enhances photosynthesis, and increases fruit set. In the case of manganese deficiency, interveinal yellowing is observed in young leaves, and some plants may develop yellow spots and lesions on their leaves. As the deficiency progresses, the photosynthetic area in the plant gradually narrows, and the accumulation of dry matter slows down. As a result, a decline in yield and quality occurs.

Unico Man Pro

Manganese Fertilizer Solution

Containing Manganese Sulphate



Guaranteed Content	% w/w
Water Soluble Manganese (Mn)	10

It promotes the expansion of leaf surfaces, enhances photosynthesis, and increases fruit set. In the case of manganese deficiency, interveinal yellowing is observed in young leaves, and some plants may develop yellow spots and lesions on their leaves. As the deficiency progresses, the photosynthetic area in the plant gradually narrows, and the accumulation of dry matter slows down. As a result, a decline in yield and quality occurs.

Unico Bor

Boron Ethanol Amine



Guaranteed Content	% w/w
Water Soluble Boron (B)	8

Boron ethanol amine is a type of boron fertilizer in which boron is chelated with ethanolamine, making it more soluble and available for plant uptake. Boron is an essential micronutrient for plants and plays various roles in the growth and development of plants. Boron ethanolamine fertilizer is used to eliminate boron deficiencies in plants and support healthy growth. Here are some basic uses and benefits:

Cell Wall Formation: Boron is very important for the formation and stability of plant cell walls. It contributes to the structural integrity of cell walls by affecting cell elongation and division.

Reproductive Growth: Boron is particularly important for the development of reproductive structures in plants, such as pollen germination, pollen tube growth, and seed and fruit development. Adequate boron levels are essential for successful pollination and fruit set.

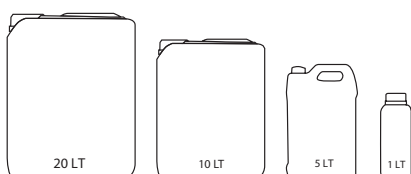
Transport of Sugar: Boron plays a role in the transport of sugars in plants. It affects the translocation of carbohydrates necessary for various physiological processes, including the development of sink tissues (such as fruits).

Nutrient Uptake: Boron may affect the uptake of other nutrients by plants. It plays a role in regulating ion transport across cell membranes.

Regulation of Enzymes: Boron is a cofactor for certain enzymes involved in various metabolic processes, including lignin formation and phenol metabolism.

Boron deficiency is first observed in young leaves, organs, and growth points of the plant. The root extension of plants slows down and stops, internodes shorten, young leaves shrivel and curl, distort their shapes, and swellings and indentations appear on their surfaces. Bud, flower, and fruit formation decrease or come to a complete halt. Additionally, cold and salt stress that occurs on plants due to boron deficiency results in significant yield loss in crop production.

Since excessive boron can be toxic to plants, the careful application of boron fertilizers is important. When Unico Bor is used at the correct timing and doses based on plant and soil characteristics, both in the soil and as a foliar spray, it quickly alleviates boron deficiency and the associated negative effects due to temperature changes in annual and perennial plants.





Unico Zinc
Zinc Fertilizer Solution
Containing Zinc Sulphate

Guaranteed Content	% w/w
Water Soluble Zinc (Zn)	10



Unico Zinc Plus
Zinc Fertilizer Solution
Containing Zinc Sulphate-EDTA

Guaranteed Content	% w/w
Water Soluble Zinc (Zn)	5
Water Soluble Zinc (Zn) chelated with EDTA	5

Zinc is an important micronutrient that plays an important role in various physiological processes in plants. Zinc deficiency can have negative effects on plant growth and development, causing symptoms such as slowed growth, intervascular chlorosis (yellowing between the veins) and reduced yield. Some important uses and benefits of zinc fertilizer solutions include:

Enzyme Activation: Zinc is a component of many enzymes involved in various metabolic processes in plants. It is particularly important for the activation of enzymes that regulate the synthesis of nucleic acids and proteins.

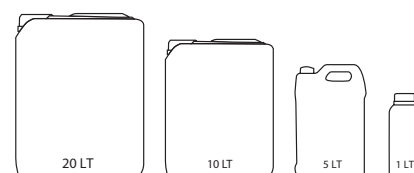
Photosynthesis: Zinc is necessary for the synthesis of chlorophyll, the green pigment responsible for photosynthesis. Adequate zinc levels contribute to efficient photosynthetic processes that are vital for plant energy production.

Root Development: Zinc plays a role in root development and elongation. It plays a role in the formation of root tips and root hairs, which are very important for nutrient absorption from the soil.

Stress Tolerance: Zinc helps plants cope with various environmental stresses, including drought and disease. Adequate zinc levels can increase the plant's overall stress tolerance.

Reproductive Growth: Zinc is essential for the development of reproductive structures in plants, including flowers and seeds. It contributes to pollen formation and germination.

Unico Zinc and Unico Zinc Plus are often applied to soil or used as foliar sprays, depending on the specific needs of the plants and the severity of the deficiency. Foliar application allows rapid uptake of zinc by the plant, especially in cases where rapid correction is required.



ORGANIC FERTILIZERS



Organic fertilizers are used in various agricultural, horticultural, and gardening contexts where the goal is to enhance soil fertility, promote sustainable practices, and improve plant growth. Here are some key areas where organic fertilizers find application:

Organic Farming: Organic fertilizers are a fundamental component of organic farming systems, which prioritize natural and sustainable approaches to crop production without synthetic chemicals.

Home Gardening: Many home gardeners prefer using organic fertilizers to nurture their plants and vegetables. They are often chosen for their environmentally friendly qualities and the desire to avoid synthetic chemicals.

Commercial Agriculture: Organic fertilizers are increasingly used in conventional agriculture as well, often in combination with conventional fertilizers. This integrated approach helps improve soil health and reduce reliance on synthetic inputs.

Landscaping: Organic fertilizers are applied in landscaping projects to enhance the fertility of soil in parks, public spaces, and private gardens. They provide a sustainable alternative to synthetic fertilizers.

Nurseries and Seedling Production: Organic fertilizers are employed in nurseries for growing healthy seedlings and young plants. They can be incorporated into potting mixes or used as top dressings for container-grown plants.

Orchards and Vineyards: Organic orchards and vineyards use organic fertilizers to support the growth of fruit-bearing trees and grapevines. These fertilizers contribute to soil fertility and the overall health of the orchard or vineyard ecosystem.

Flower Production: Organic fertilizers are utilized in commercial flower production and in gardens to enhance the growth, flowering, and overall quality of ornamental plants.

Turf Management: Organic fertilizers are applied to lawns and turf areas to promote healthy grass growth. They are chosen for their ability to improve soil structure and reduce the environmental impact associated with synthetic fertilizers.

Hydroponic and Aquaponic Systems: In soilless growing systems like hydroponics and aquaponics, organic fertilizers can be used to provide essential nutrients to plants. These systems may require specially formulated organic nutrient solutions.

Greenhouse Cultivation: Greenhouse growers often use organic fertilizers to cultivate vegetables, herbs, and flowers in a controlled environment. The choice of organic fertilizers aligns with sustainable and eco-friendly practices.

Urban Agriculture: In urban settings where space is limited, organic fertilizers are applied in community gardens, rooftop gardens, and other urban agriculture projects to promote sustainable and local food production.

Restoration and Rehabilitation Projects: Organic fertilizers are used in ecological restoration projects to enhance soil fertility and promote the establishment of native vegetation in degraded or disturbed areas.

Organic fertilizers contribute to building soil organic matter, supporting microbial activity, and improving overall soil health. Their use aligns with the principles of sustainable agriculture and gardening, emphasizing the long-term well-being of the soil and the ecosystems it sustains.





THE IMPORTANCE OF AMINOACID IN ORGANIC FERTILIZERS

Amino acids are crucial components in organic fertilizers, and their presence offers several important benefits for plant growth and overall soil health. Here are some key reasons why amino acids are important in organic fertilizers:

Nutrient Transport and Uptake: Amino acids act as chelating agents, forming complexes with essential nutrients such as iron, zinc, and copper. This chelation enhances nutrient transport in the soil and facilitates their uptake by plant roots. This is particularly valuable in soils where nutrient availability might be limited.

Stimulation of Plant Metabolism: Amino acids are involved in various metabolic processes within plants. They play a role in protein synthesis, enzyme activation, and the formation of hormones. The presence of amino acids in organic fertilizers can stimulate these metabolic activities, promoting overall plant growth and development.

Improved Nutrient Efficiency: Amino acids can enhance the efficiency of nutrient utilization by plants. They help optimize nutrient absorption and minimize nutrient losses through leaching or volatilization. This can result in more effective use of fertilizers and reduced environmental impact.

Enhanced Stress Tolerance: Amino acids contribute to the development of stress-tolerant plants. They can help plants cope with various environmental stresses, such as drought, temperature extremes, and disease pressure. Improved stress tolerance is crucial for the overall resilience of crops.

Increased Root Development: Amino acids can stimulate root growth and development. A well-developed root system allows plants to explore a larger soil volume for nutrients and water, leading to improved overall plant health.

Boosted Photosynthesis: Amino acids play a role in the photosynthetic process. By providing the necessary building blocks for protein synthesis and supporting enzyme activities, amino acids contribute to enhanced photosynthetic efficiency.

Faster Recovery from Environmental Stress: Amino acids can aid in the rapid recovery of plants from environmental stresses. They provide the necessary components for the synthesis of proteins and enzymes that are crucial for repair and regeneration.

pH Buffering: Amino acids contribute to the buffering capacity of soils, helping to maintain a stable pH environment. This is important for nutrient availability and microbial activity in the soil.

Compatibility with Microbial Activity: Amino acids provide a food source for beneficial soil microorganisms. This supports the growth and activity of microbes involved in nutrient cycling, organic matter decomposition, and other essential soil processes.

In summary, amino acids play a multifaceted role in promoting plant health and soil fertility. The inclusion of amino acids in organic fertilizers can enhance nutrient availability, support plant metabolism, and contribute to sustainable and resilient agriculture practices.

Amino X, Amin Pro & Vit Amin

Amino X, Amin Pro, and Vit Amin are liquid fertilizers composed of amino acids, macro elements, and organic substances, providing a stimulating effect on plants. All amino acids in their composition are in free form, ensuring rapid absorption and transportation into the plant's system. They particularly support balanced nutrition during the growth and maturation periods of plants. In fruit-bearing plants (such as cucumber, squash, eggplant, pepper, etc.), they significantly accelerate fruit development, thereby shortening the harvest time. Especially during periods with significant temperature fluctuations between day and night, when plant development tends to slow down, these fertilizers help plants easily navigate through this period without stress. They ensure that the plant remains youthful at all times and never induces fatigue.



Amino X

Liquid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	25
Total Nitrogen (N)	3
Organic Nitrogen (N)	3
Water Soluble Potassium Oxide (K ₂ O)	5
Free Amino Acids	10
pH	7-9



Amin Pro

Liquid Organic Fertilizer Containing Plant Origin Amino Acid

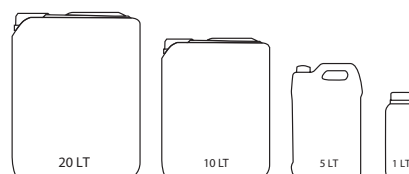
Guaranteed Content	% w/w
Organic Matter	28
Organic Nitrogen (N)	1
Free Amino Acids	10
Organic Carbon	7
Water Soluble Potassium Oxide (K ₂ O)	2
pH	3-5



Vit Amin

Liquid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	45
Organic Nitrogen (N)	2
Free Amino Acids	10
Organic Carbon	18
Water Soluble Potassium Oxide (K ₂ O)	2
pH	4,5-6,5





Max Amin

Liquid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	55
Organic Nitrogen (N)	3
Free Amino Acids	10
Organic Carbon	24
Water Soluble Potassium Oxide (K ₂ O)	3
pH	3,5-5,5

Max Amin is a product containing plant-derived amino acids and high amounts of organic matter. It is quickly absorbed by the plant and shows its effect quickly. It is effective in the rapid growth of the plant and the larger size of the fruits. It increases the rate of photosynthesis in the plant, increases the water retention capacity of the soil, and enables the plant to absorb more nutrients. It helps nourish the plant with the macronutrients it contains.



Amino Tech

Liquid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	36
Organic Nitrogen (N)	3
Free Amino Acids	20
Organic Carbon	10
Water Soluble Potassium Oxide (K ₂ O)	3
pH	3-5

Amino acids found in the proteins, which are the building blocks of plants, contribute to the development of the plant and the fulfillment of various functions. These stages include the plant's growth, flowering, fruit setting, and fruit maturation. They also enable plants to withstand potential stresses that may occur in hot and cold weather. Amino Tech, with its 20% content of free amino acids, meets the plant's need for amino acids and ensures the fulfillment of all functions.

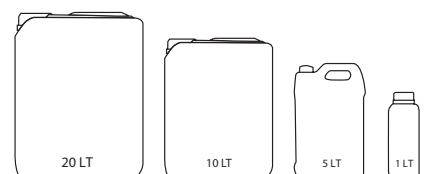


Amin Force

Liquid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	30
Organic Nitrogen (N)	2
Free Amino Acids	3
Organic Carbon	12
Water Soluble Potassium Oxide (K ₂ O)	5
pH	4-6

It is a highly useful product for plants with its organic matter and amino acid content. It assists in the thickening, flowering, and productivity of plants. Additionally, it supports the fulfillment of the soil's organic matter requirements. It ensures the plant's stress-free growth in both cold and hot climate conditions.





Ani-Tech

Liquid Organic Fertilizer Containing Animal Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	25
Organic Carbon	15
Organic Nitrogen (N)	3
Free Amino Acids	20
Water Soluble Potassium Oxide (K ₂ O)	15
pH	10-12

Ani-Tech is a cytoplasmic extract derived from enzymatic hydrolysis and thermal treatment of animal-origin materials. It is rich in free amino acids (Lysine, Tyrosine, Alanine, Proline, Alanine, Glutamic Acid, Leucine, Aspartic Acid, Valine) and vitamins.

1) Due to the low molecular structures of the free amino acids in its composition (L-Form):

It enhances the resilience of plants against environmental abiotic factors (light, temperature, climate, soil, minerals, pH) and stress conditions arising from incorrect pesticide use.

The low molecular structure allows for rapid absorption and transportation from leaves and roots in plants, providing greater utilization compared to accompanying products.

2) Thanks to the L-Form free amino acids and short-chain peptides in its composition:

It increases both generative and vegetative development, resulting in early harvesting.

Being produced through enzymatic hydrolysis and thermal treatment ensures that it does not induce aging in plants.

It enhances chlorophyll synthesis.

It exhibits a chelating effect on trace elements.

Enhances fruit quality (Color, Taste, Size, Shape, Shelf Life) and quantity.

Improves pollen germination and productivity.

Provides resistance against pathogens.

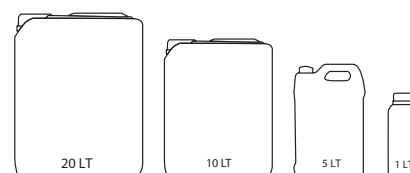
Stimulates vitamin synthesis.

With its chelating property, it prevents calcium from reacting with other minerals for calcification.

Through its soil-regulating properties:

Strengthens the root structure in plants and increases the amount of capillary roots.

Raises the uptake ratio of micro and macro elements.



Amin45 & Amino Plant

Amin45 and Amino Plant are plant origin powder product containing minimum 40% free amino acids. Amino acids are simple molecules formed from the breakdown of proteins, consisting of chains with a mixed structure. All amino acids contain carbon, hydrogen, and oxygen. L-Free amino acids are crucial for plants, and due to their plant-based origin, they are easily and rapidly absorbed. Amino Acids increase chlorophyll levels, accelerating plant metabolism and enhancing productivity. When applied to the soil (such as in drip irrigation systems), it helps warm the plant during the winter season and makes the plant more resilient against environmental stress conditions.



Amin45

Solid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	70
Organic Carbon	22
Total Nitrogen (N)	6
Free Amino Acids	45
Maximum Humidity	20
pH	3,5-5,5



Amino Plant

Solid Organic Fertilizer Containing Plant Origin Amino Acid

Guaranteed Content	% w/w
Organic Matter	60
Organic Carbon	19
Organic Nitrogen (N)	5,6
Free Amino Acids	40
Maximum Humidity	20
pH	3,5-5,5



Bio Pro, Complex, Base & Base Plus

Bio Pro, Complex, Base and Base Plus are liquid organic fertilizers of plant origin, enriched with a high level of organic matter, organic carbon. Besides enhancing the biological properties of the applied soil, they facilitate increased photosynthesis in plants, playing a role in improving both soil fertility and nutrient formation in plants. They promote the main root and lateral root development of plants, allowing for the uptake of nutrients that are otherwise inaccessible to plants in the soil. Along with root and plant development, they support the formation of homogeneous fruits.



Bio Pro

Liquid Organic Fertilizer of Plant Origin

Guaranteed Content	% w/w
Organic Matter	33
Organic Carbon	14
Total Nitrogen (N)	3
Water Soluble Potassium Oxide (K ₂ O)	4
pH	4-6



Complex

Liquid Organic Fertilizer of Plant Origin

Guaranteed Content	% w/w
Organic Matter	40
Organic Carbon	14
Total Nitrogen (N)	2
Water Soluble Potassium Oxide (K ₂ O)	3
pH	4-6



Base

Liquid Organic Fertilizer of Plant Origin

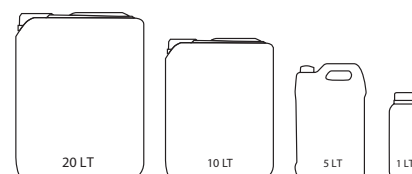
Guaranteed Content	% w/w
Organic Matter	35
Organic Carbon	12
Total Nitrogen (N)	2
Water Soluble Potassium Oxide (K ₂ O)	3
pH	4,5-6,5



Base Plus

Liquid Organic Fertilizer of Plant Origin

Guaranteed Content	% w/w
Organic Matter	45
Organic Carbon	19
Total Nitrogen (N)	1
Water Soluble Potassium Oxide (K ₂ O)	6
pH	4-6





Root Humate Liquid Humic Acid of Organic Origin

Guaranteed Content	% w/w
Total Organic Matter	13
Total Humic Acid + Fulvic Acid	12
Water Soluble Potassium Oxide (K ₂ O)	2,5
pH	7,5-9,5

Unico Root Humate, derived from organic materials, enriches the soil and increases structure and nutrient absorption. With its unique mixture, it supports strong root development, increases stress resistance and increases overall plant health.

Soil Improvement: Liquid humic acid of organic origin helps improve soil structure, making the soil more fragile and increasing its water retention capacity. It contributes to the formation of stable soil aggregates by improving aeration and drainage.

Nutrient Availability: Humic acid increases the availability of nutrients in the soil. It acts as a chelating agent by binding to minerals, allowing them to be more easily absorbed by plant roots. This increases nutrient uptake and utilization by plants.

pH Regulation: Humic acid can help regulate the pH of the soil. While it helps lower pH in alkaline soils, it can contribute to raising pH levels in acidic soils. Maintaining the optimum pH range is important for providing nutrients to plants.

Stress Resistance: Application of liquid humic acid of organic origin has been associated with increased stress resistance in plants. It helps plants cope with environmental stressors such as drought, extreme temperatures and soil salinity.

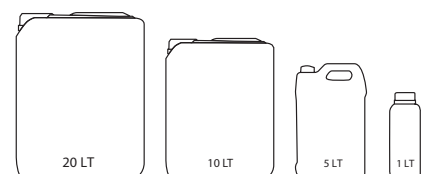
Root Development: Humic acid supports root development by stimulating root growth and branching. This results in a more extensive and efficient root system that is better able to absorb water and nutrients from the soil.

Microbial Activity: Humic acid promotes beneficial microbial activity in the soil. It provides an environment conducive to the growth of beneficial bacteria and fungi that contribute to nutrient cycling and organic matter decomposition.

Improving Seed Germination: When used in seed treatments, humic acid can increase seed germination rates. It provides a suitable environment for seedling formation and early root development.

Increased Crop Yield: In general, the positive effects of liquid humic acid of organic origin on soil structure, nutrient availability and plant health contribute to increased crop yield and improved product quality.

It is important to note that specific benefits may vary depending on the concentration and quality of the humic acid, as well as application methods and the specific needs of the crop or plants involved.





Unico Humifull Potassium Humate

Guaranteed Content	% w/w
Organic Matter	60
Total (Humic + Fulvic) Acid	70
Water Soluble Potassium Oxide (K_2O)	6
pH	8-10

Unico Humifull is a product containing Humic and Fulvic acids, derived from the extraction of leonardite, a substance formed through the decomposition and compression of plant residues in the soil. It serves as a comprehensive plant growth regulator. This rapidly soluble, large-particle granule formulation is applied directly to the soil by dissolving it in water. It can also be mixed with foliar fertilizers, insecticides, herbicides, and defoliant for foliar application to plants. Unico Humifull enhances plant growth and productivity, resolves soil compaction, facilitates easier root establishment, and promotes overall development. It increases water retention capacity in light sandy soils, accelerates the decomposition process in heavy clay soils, loosening and aerating the soil while improving water permeability. Additionally, it eliminates excess sodium in the soil, alleviating salinity issues, and chelates existing nutrients in the soil, making them readily available for plant uptake.



Lenor Seaweed & Lenor Seaweed Powder

Lenor Seaweed is a variety of seaweed rich in biologically active and nutrient-rich substances widely used in agriculture. Its composition includes natural plant hormones such as cytokinins, betaines, auxins, and gibberellins, along with amino acids, carbohydrates, vitamins, and various essential nutrients.

It promotes robust root development, allowing the plant to uptake more nutrients and water from the soil.

Accelerates chlorophyll formation, resulting in increased carbohydrate and protein synthesis.

Enhances the plant's resistance to diseases, pests, and adverse weather conditions.

Increases lateral branching and fruit setting in fruit trees, reducing flower and fruit drop and resulting in improved yield.

Slows down viral proliferation and reduces the damage caused by root-knot nematodes.

Ensures the balanced and prolonged uptake of macro and micronutrients from the soil.

Increases the organic matter content in the soil where it is applied, thanks to its organic material composition.

Promotes rapid and healthy root development in plants due to its Alginic and Gibberellic acid content.

Used to support young plants and strengthen the plant after flowering.

Improves the transmission and efficiency of plant nutrients and water.

Assists in delaying aging by preventing the stagnation of cell membranes, proteins, and chlorophyll in the plant.

Naturally strengthens plant roots against pathogens and pests.



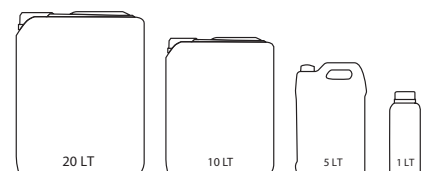
Lenor Seaweed Liquid Seaweed

Guaranteed Content	% w/w
Organic Matter	7
Water Soluble Potassium Oxide (K ₂ O)	3
Alginic Acid	0,5
EC (dS/m)	13
pH	8-10

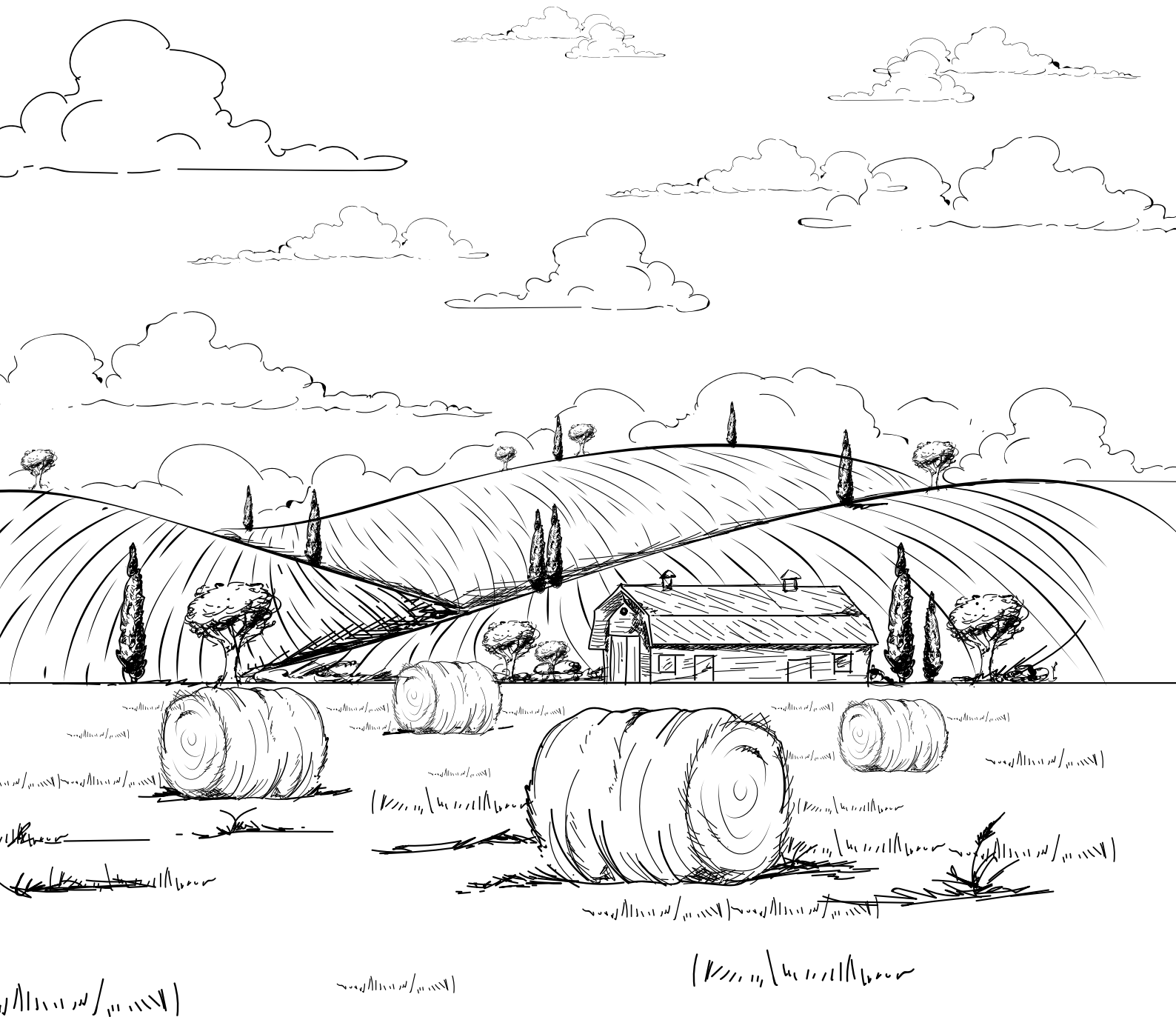


Lenor Seaweed Powder Solid Seaweed

Guaranteed Content	% w/w
Organic Matter	45
Water Soluble Potassium Oxide (K ₂ O)	18
Alginic Acid	3
EC (dS/m)	43,9
pH	7-9



ORGANOMINERAL FERTILIZERS



Organomineral fertilizers, are fertilizers that combine both organic and inorganic (mineral) components. These fertilizers serve several important functions in supporting plant growth and development:

Nutrient Supply: Organomineral fertilizers provide a balanced supply of essential nutrients to plants. The organic component typically includes materials like compost, manure, or plant residues, contributing organic matter and slowly releasing nutrients such as nitrogen, phosphorus, and potassium over time. The mineral component supplements these nutrients with additional elements required for plant growth.

Improved Soil Structure: The organic matter in organomineral fertilizers enhances soil structure by improving its water-holding capacity, aeration, and drainage. This promotes a healthier environment for root development and microbial activity in the soil.

Long-Lasting Nutrient Release: The organic component in these fertilizers breaks down gradually, leading to a slow and steady release of nutrients. This can provide a sustained supply of nutrients to plants over an extended period, reducing the risk of nutrient leaching and runoff.

Enhanced Microbial Activity: The organic matter in organomineral fertilizers supports beneficial microbial activity in the soil. Microorganisms play a crucial role in nutrient cycling, making nutrients more available to plants and contributing to overall soil health.

Increased Soil Fertility: The combination of organic and mineral components improves soil fertility by providing a diverse range of nutrients. This can lead to increased fertility over time, supporting better plant growth and productivity.

Environmental Benefits: Organomineral fertilizers can contribute to sustainable agriculture by minimizing nutrient runoff and leaching, reducing the risk of water pollution. The gradual nutrient release and improved soil structure also contribute to long-term environmental sustainability.

Adaptability: Organomineral fertilizers are versatile and can be customized to meet specific crop and soil requirements. This adaptability allows farmers and gardeners to tailor their fertilizer applications based on the nutritional needs of different plants.

Reduced Environmental Impact: Compared to some traditional fertilizers, organomineral fertilizers may have a lower environmental impact. They can help reduce the risk of nutrient imbalances, soil degradation, and other environmental issues associated with certain agricultural practices.

Overall, organomineral fertilizers provide a balanced and sustainable approach to plant nutrition, combining the benefits of organic and mineral fertilizers for improved soil health and plant growth.





Potasgoal 4-0-20

Liquid Organomineral Fertilizer with NK

Guaranteed Content	% w/w
Organic Matter	29
Total Nitrogen (N)	4
Nitrate Nitrogen (NO ₃ -N)	4
Water Soluble Potassium Oxide (K ₂ O)	20
Water Soluble Boron (B)	0,01
Water Soluble Copper (Cu)	0,004
Water Soluble Iron (Fe)	0,03
Water Soluble Manganese (Mn)	0,01
Water Soluble Molybdenum (Mo)	0,01
Water Soluble Zinc (Zn)	0,01
Free Amino Acids	2,8
Max. Chlorine (Cl)	6,2
pH	3,5-5,5

Potasgoal 4-0-20 is a highly effective fertilizer that can be applied both to the soil and leaves, providing excellent quality and size to the pre-harvest yield with the support of trace elements in its composition. It delivers outstanding results, particularly in greenhouse vegetable production, preventing small fruit and quality deficiencies, especially in tomatoes. It works exceptionally well in the growth and ripening of fruits and vegetables, ensuring good color development. It enhances the taste and aroma of fruits and vegetables, improving their overall quality. It increases the storage and shelf life of sensitive fruits. In crops like olives, it boosts oil content, and in pistachios, it increases kernel filling. By raising turgor pressure in plants, it reduces stress and prevents the formation of loose tissues. The formation of tight tissues makes the plant resistant to disease agents and adverse environmental conditions.



Organo and Organo Balance series offer a comprehensive solution for robust plant growth and development with their various formulations. Providing a continuous supply of nutrients through slow and steady release, these series ensure constant health and vitality for your plants. They enhance soil structure, promote microbial activity, and facilitate nutrient absorption. Ideal for various crops and garden applications, Organo and Organo Balance series bring a sustainable and specialized approach to plant nutrition, contributing to healthier and more productive plants.

Organo and Organo Balance series, applicable both to the soil and leaves, are highly effective in ensuring quality and size in pre-harvest yields. Particularly in greenhouse vegetable production, they yield excellent results in preventing small fruit and quality deficiencies, especially in tomatoes. They excel in the growth and ripening of fruits and vegetables, ensuring vibrant color development. These series enhance the taste and aroma of fruits and vegetables, elevating their overall quality. They increase the storage and shelf life of sensitive fruits. In crops like olives, they boost oil content, and in pistachios, they increase kernel filling. By raising turgor pressure in plants, they reduce stress and prevent the formation of loose tissues. The formation of tight tissues makes the plant resilient to disease agents and adverse environmental conditions.



Organo 10-0-5

Liquid Organomineral Fertilizer with NK

Guaranteed Content	% w/w
Organic Matter	25
Total Nitrogen (N)	10
Organic Nitrogen (N)	0,3
Urea Nitrogen (NH ₂ -N)	9,7
Water Soluble Potassium Oxide (K ₂ O)	5
Water Soluble Boron (B)	0,5
Total Iron (Fe)	2
Water Soluble Iron (Fe)	0,5
Total Zinc (Zn)	4
Water Soluble Zinc (Zn)	2
pH	5-7



Organo Balance 8-8-8

Liquid Organomineral Fertilizer with NPK

Guaranteed Content	% w/w
Organic Matter	25
Total Nitrogen (N)	8
Nitrate Nitrogen (NO ₃ -N)	2
Urea Nitrogen (NH ₂ -N)	6
Total Phosphorus Pentoxide (P ₂ O ₅)	8
Water Soluble Phosphorus Pentoxide (P ₂ O ₅)	8
Water Soluble Potassium Oxide (K ₂ O)	8
Max. Chlorine (Cl)	1
pH	2-4





Organo 6-20-6

Liquid Organomineral Fertilizer with NPK

Guaranteed Content	% w/w
Organic Matter	25
Total Nitrogen (N)	6
Nitrate Nitrogen (NO ₃ -N)	1,8
Urea Nitrogen (NH ₂ -N)	4,2
Total Phosphorus Pentaoxide (P ₂ O ₅)	20
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	20
Water Soluble Potassium Oxide (K ₂ O)	6
Max. Chlorine (Cl)	1
pH	1,5-3,5



Organo Balance 4-4-4

Liquid Organomineral Fertilizer with NPK

Guaranteed Content	% w/w
Organic Matter	15
Total Nitrogen (N)	4
Ammonium Nitrogen (NH ₄ -N)	1
Urea Nitrogen (NH ₂ -N)	3
Total Phosphorus Pentaoxide (P ₂ O ₅)	4
Water Soluble Phosphorus Pentaoxide (P ₂ O ₅)	4
Water Soluble Potassium Oxide (K ₂ O)	4
Free Amino Acids	2
Max. Chlorine (Cl)	3
Max. EC	29 (dS/m)
pH	5,5-7,5



OTHER CHEMICAL FERTILIZERS





Nitro-N Nitrogen Fertilizer Solution

Guaranteed Content	% w/w
Total Nitrogen (N)	15
Urea Nitrogen (NH ₂ -N)	15

While meeting the plant’s nitrogen needs, Nitro-N ensures a balance between vegetative and generative growth through their accompanying components.

Nitrogen (N), a fundamental nutrient for plants, is provided in high proportions, ensuring the plant’s overall health. It balances the soil’s pH, enabling the uptake of macro and micronutrients in an available form. Through amino acids, fulvic acid, and enzymes, it facilitates the rapid transition of absorbed macro and micronutrients to the plant. Its positive effects on plant development persist even in cold weather. It promotes thickening and lateral growth in plants and enhances fruit sizing. Available in a fully absorbable form for the plant, it is suitable for both foliar and soil application.



Unico Magne Tech Magnesium Sulphate Solution

Guaranteed Content	% w/w
Water Soluble Magnesium Oxide (MgO)	6
Water Soluble Sulfur Trioxide (SO ₃)	12

Magnesium (Mg) is the essential building block of chlorophyll, the green pigment giving color to plant leaves. Therefore, it is a crucial element supporting the growth of chlorophyll.

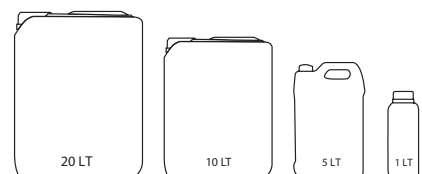
It strengthens plants against various adversities caused by environmental disturbances.

Plants exposed to excess water, extreme temperatures, or soil-borne diseases can easily overcome the recovery process.

Magnesium plays a vital role in energy metabolism, thus participating in energy transfer processes.

It aids in nodulation for nitrogen fixation in legumes.

Unico Magne Tech acts as a valuable supplement for plants by providing essential magnesium (Mg) and sulfur (S) necessary to support chlorophyll formation, enhance nutrient uptake, and promote overall plant health, resilience, and growth.





Unico Calcium Calcium Nitrate Solution (To Prepare BBM Solution)

Guaranteed Content	% w/w
Total Nitrogen (N)	8
Nitrate Nitrogen (NO ₃ -N)	8
Water Soluble Calcium Oxide (CaO)	14

Unico Calcium solution offers several benefits to plants, primarily due to its contribution of calcium and nitrogen.

Calcium Supply: Cell Wall Structure: Calcium is an essential component of plant cell walls. It strengthens cell walls, providing structural support to the plant. This is crucial for the overall integrity and rigidity of plant cells.

Nutrient Uptake and Transport: Facilitates Nutrient Absorption: Calcium plays a role in the uptake and transport of other nutrients. It helps in the movement of other essential elements within the plant, ensuring proper nutrient distribution.

Prevention of Disorders: Blossom-End Rot: Adequate calcium levels can help prevent disorders like blossom-end rot in tomatoes and peppers. This condition is characterized by the decay of the blossom end of developing fruits.

Cell Division and Growth: Cell Division: Calcium is involved in cell division and elongation. It promotes healthy growth in roots, shoots, and leaves.

Nitrogen Source: Nitrogen Supply: Calcium Nitrate also serves as a source of nitrogen, which is a vital nutrient for plant growth. Nitrogen is a key component of amino acids, proteins, and chlorophyll.

Acidic Soil Amendment: pH Regulation: In addition to calcium and nitrogen, Calcium Nitrate can help in regulating soil pH. It can be used as an amendment in acidic soils, helping to raise the pH to more suitable levels for plant growth.

Improved Plant Health: Resistance to Stress: Adequate calcium levels contribute to stress resistance in plants. It helps plants cope with environmental stressors such as drought, salinity, and temperature fluctuations.

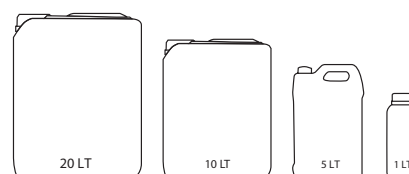
Enhanced Fruit Quality: Fruit Firmness: Calcium is particularly important for fruits' firmness and quality. It can reduce the incidence of softening and spoilage during storage.

Foliage Health and Leaf Health: Calcium supports the health of leaves, reducing the risk of disorders like tip burn and leaf necrosis.

Overall Plant Vigor and Productivity: The combined effects of calcium and nitrogen contribute to overall plant vigor, leading to improved productivity and yield.

Unico Calcium is produced to meet the calcium (Ca) needs of plants and is slightly fortified with amino acids to facilitate easy absorption by the plant. It prevents calcium deficiency in fruits while thickening cell walls to ensure firmness.

It's important to apply Calcium Nitrate solution judiciously, considering the specific needs of the plants, soil conditions, and the growth stage of the crops. Proper application can result in healthier, more robust plants and improved crop quality.





Unico Calbor

Calcium Chloride Solution (To Prepare BBM Solution)

Guaranteed Content	% w/w
Total Nitrogen (N)	8
Nitrate Nitrogen (NO ₃ -N)	8
Water Soluble Calcium Oxide (CaO)	14
Water Soluble Boron (B)	0,2

Unico Calbor provides a simultaneous solution to calcium (Ca) and boron (B) deficiencies, addressing nutritional disorders associated with these elements.

Ensuring the strength of plant tissues during the early stages, it imparts a lively, upright appearance to the plant and promotes rapid growth.

It is effective in sustaining nitrogen metabolism without disruption.

Facilitating the movement of synthesized organic compounds within the plant, it ensures their reach to essential organs.

Promoting upright and lively leaves, it increases the overall light absorption surface, consequently elevating the rate of photosynthesis.

By supplying calcium, an activator in many enzymes, it ensures the regular flow of bio processes in the plant.

Prevents blossom-end rot in plants such as tomatoes, peppers, eggplants, cantaloupes, and watermelons due to calcium deficiency.

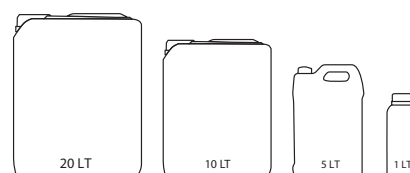
Prevents bitter pit disease in apples due to calcium deficiency.

Prevents internal decay disease in tubers like sugar beets and potatoes due to boron deficiency.

Prevents fruit cracking associated with boron deficiency.

Increases the kernel fill rate in corn cobs, resulting in larger grains.

Enhances the kernel and plate fill rate in crops like sunflowers, canola, and rapeseed, ensuring larger seeds. Additionally, it increases the oil content of the seeds, enhancing both yield and quality.



K Power & K Power30

K Power and K Power30 are systemic products used for flowering, fruit setting, and fruit growth in plants. They can be safely applied through both soil and leaves. The special plant growth regulators in their composition stimulate the plant's resistance mechanisms. Additionally, by shortening the internodes in plants, they promote the formation of more healthy flowers, significantly increasing fruit setting. At the end of the season, they help the plant store the used phosphorus and potassium during the winter period, aiding in the formation of fruit buds for the next season.



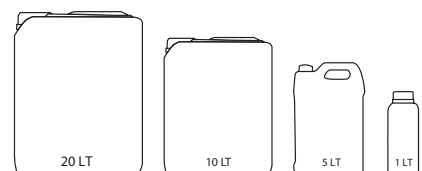
K Power Potassium Solution

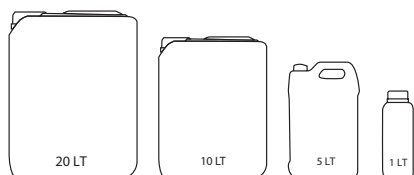
Guaranteed Content	% w/w
Water Soluble Potassium Oxide (K_2O)	20



K Power30 Potassium Solution

Guaranteed Content	% w/w
Water Soluble Potassium Oxide (K_2O)	30





Unico pH Regulator

pH Regulator

Unico pH Regulator regulates the pH of the environment in alkaline waters and soils by capturing calcium with its various anions. This ensures that all nutrients, which the plant cannot easily uptake at high pH levels, become readily available for the plant. By adjusting the pH of the environment to levels between 5-6, it facilitates the easy uptake of bound nutrients in the soil by the plant. When added to spraying water, it lowers the pH, enhancing the effectiveness of pesticides, preventing their decomposition. It also increases the plant's resistance against some root and stem diseases, adjusts soil pH balance, and eliminates salinity.

Unico pH Regulator softens water when preparing pesticide solutions, enhances solubility, and eliminates water hardness. It adjusts the pH of alkaline waters, prolonging the effectiveness of pesticides. It prevents clogging of drip pipes and facilitates the opening of clogged pipes. It can be used in conjunction with all foliar fertilizers and agricultural pesticides, enhancing the duration and potency of all applied chemicals.

Typically, medicines or fertilizers are prepared with well waters, which often have high pH levels, causing undesired alterations in the prepared solutions. The degradation rate of pesticides prepared in high-pH waters accelerates, leading to a shortened duration of effectiveness. Unico pH Regulator is a necessary product to address and prevent these issues, ensuring the effective resolution of these problems.

Unico Super Wet

Spreader Adhesive

(Containing Organic Silicone)



Unico Super Wet is a specialized spreader-adhesive product. It ensures the homogeneous spreading and adhesion of plant protection chemicals and foliar fertilizers onto the leaves and branches of the plant in the form of a thin film layer. This prevents the loss of applied chemicals and fertilizers through washing, extending the time for the plant to benefit from them and increasing application efficiency. By preventing the gathering of agricultural chemicals and foliar fertilizers in large droplets, it also prevents the formation of unwanted stains on fruits and burning of leaves. Additionally, it is used for the post-application cleaning of spraying equipment.



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