PBL®

PEPTECH BIOSCIENCES LTD.

Your Efficient Agro Partner

Deliver Precision Nutrition



Liquid Suspension Concentrated Fertilizer

Powered by

PepEliVate™

Precision Nutrient Technology by PBL

Quality Products
Sustainable Future

Trusted by Farmers
Chosen by Partners Worldwide
www.peptechbio.com

PEPTECH BIOSCIENCES LTD.

Peptech Biosciences Limited is where agricultural science is transformed into reliable, field-ready performance. Built on the legacy of Titan Biotech and decades of expertise in amino acid–based biotechnology, the company began with pioneering Bio-Stimulants and has since grown into a comprehensive portfolio of Bio-Stimulants, Bio-Fertilizers, Bio-Pesticides, Plant Growth Regulators, and Chemical Agri-Input Solutions for modern agriculture.

What sets Peptech apart is its science-to-field approach. Every formulation begins with focused research and is developed through structured R&D, rigorous laboratory validation, and extensive multi-location field trials. This ensures that each product performs consistently across diverse crops, soils, and climatic conditions.

Backed by advanced automated manufacturing systems, strong quality assurance protocols, and robust regulatory expertise, Peptech enables global agri-brands to scale seamlessly through white-label, OEM, contract manufacturing, and P2P supply models.

With a presence in over 30 countries, Peptech Biosciences is trusted for its consistency, compliance, and commitment to performance-driven agriculture. At its core, the company believes innovation is only meaningful when it delivers measurable impact in the field—season after season.



Why Choose Peptech Biosciences

Science-Driven Innovation

Every product is developed through structured R&D, validated through lab analysis and multi-location field trials for assured performance.

Integrated Manufacturing Strength

Fully automated, scalable production systems ensuring precision, efficiency, and consistent batch quality.

Global Regulatory Expertise

Compliance-ready documentation and certifications supporting smooth market entry across international regions.

Proven Field Performance

Extensive testing across diverse agro-climatic zones ensures real-world reliability beyond laboratory conditions.

Our Business Models

White Label Manufacturing

Ready-to-market formulations tailored for fast brand expansion with consistent quality and regulatory support.

Contract Manufacturing (End-to-End)

From formulation to packaging, we manage full-cycle production through advanced automated facilities.

P2P Supply

Reliable supply of formulated agri-inputs for distributors and institutional buyers.

Custom R&D & Formulation Development

“One Product – One Partner" supports the development of region-specific, differentiated products.

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LIQUID SUSPENSION CONCENTRATED FERTILIZERS

Precision Nutrition for Maximum Crop Yield

At **Peptech Biosciences Limited**, our Liquid Suspension Concentrated Fertilizer solutions are engineered to deliver highly efficient, plant-available nutrition under diverse soil and climatic conditions.

Liquid Suspension Concentrated Fertilizers play a critical role in enzyme activation, chlorophyll synthesis, and metabolic regulation. However, conventional forms often suffer from low availability due to soil fixation, poor solubility, and inefficient uptake.

To overcome these challenges, Peptech Biosciences Limited has developed advanced formulations using ultra-fine particle engineering, optimized chelation, and enhanced delivery systems—ensuring superior absorption, mobility, and performance in crops.

Our Advanced Technology Platform

PepEliVate™
Precision Nutrient Technology by PBL

A next-generation Liquid Suspension Concentrated Fertilizer system developed by Peptech Biosciences Limited that ensures enhanced solubility, rapid absorption, and efficient translocation within the plant.

Key Technology Pillars

NANOPROX™
Fineness Engineering by PBL

Ultra-fine particle size (near-to-nano range) improves surface area, ensuring faster dissolution and higher bioavailability.

ShelfSure™
Stability Technology by PBL

Advanced stabilization technology prevents crystallization, settling, and phase separation, ensuring uniform nutrient distribution, extended shelf life, and consistent field performance.

ChelatiX™
Smart Binding Technology by PBL

Optimized chelation (amino acid/glycinate-based) for improved nutrient mobility and reduced fixation in soil.

MobilX™
Transport Technology by PBL

Special additives designed to accelerate nutrient penetration, uptake, and utilization within plant tissues.

Key Agricultural Challenges We Resolve

Micronutrient Deficiency Management

Corrects hidden and visible nutrient deficiencies that limit crop growth, photosynthesis, flowering, fruit development, and overall productivity.

Poor Crop Quality & Yield

Supports balanced plant nutrition to improve crop vigor, yield potential, fruit size, color development, uniformity, and marketable produce quality.

Environmental & Soil Stress Conditions

Enhances nutrient availability and uptake under challenging conditions such as high pH soils, salinity, drought, temperature fluctuations, and nutrient fixation.

Targeted Nutrient Correction

Delivers specific Micronutrients precisely where needed, enabling rapid correction of deficiencies and supporting critical physiological processes throughout the crop growth cycle.

Multiple Micronutrient Deficiencies

Addresses multiple nutrient gaps in one application through stable, compatible combinations designed to complement and enhance nutrient efficiency.

With Peptech Biosciences Limited, Liquid Suspension Concentrated Fertilizers evolve into precision delivery systems—ensuring every nutrient applied is efficiently absorbed, utilized, and converted into measurable crop performance.

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Micronutrient Fertilizer

ZINC OXIDE 70% w/v SC

Zinc Oxide 70% w/v SC is a micronutrient fertilizer that contains a high amount of zinc. It is well-suited for foliar application; it easily penetrates plant and fruit bodies and aids in the prevention and treatment of zinc deficiency in a variety of crops. It is a free-flowing formula, which ensures the rapid and uniform spread of this product on plant surfaces and enhances better zinc absorption.

BENEFITS:

- Requires low dosage.
- Almost nano-sized particles support rapid absorption.
- Used as a tank mixture with agrochemicals.
- Promotes nitrogen metabolism and produces protein and starch.
- Boosts chloroplast & enzyme production.

Ingredients	Specifications
Zinc (Zn)	70%
Specific Gr.	1.71-1.75

DOSAGE AND APPLICATION METHODS:

Cereals

1.0 - 1.5 ml/L water 30-35 days after sowing and repeat at 40-45 days after sowing. Water rate: 400 - 500 liters per hectare.

Citrus

Spray 1 - 1.5 ml/L water firstly after bahaar treatment stage and secondly at fruit setting stage. Water rate: 500 - 1000 liters per hectare.

Cotton

0.3 to 1 L/ha 3 to 4 weeks after emergence. Repeat as required with 10 to 14 days between treatments. Water rate: 300 - 500 liters per hectare.

Maize

1.0 - 1.5 ml per liter water at 30 – 35 days after sowing. Water rate: 400 – 500 liters per hectare.

Potato

Spray 1 to 1.5 ml/liter water 30 - 35 days after planting. Water rate: 160 - 200 liters per hectare.

Rice

1.0 - 1.5 ml/liter water at 30 - 35 DAT and repeat at 45 - 50 DAT. Water rate: 400 - 500 liters per hectare.

Sugarcane

Spray 1 - 1.5 ml/liter water firstly 45 days after planting stage and secondly 90 days after planting stage. Water rate: 400 – 500 liters per hectare.

Wheat

Spray 1 - 1.5 ml/liter water firstly 30 - 35 days after sowing and secondly 45 - 50 days after sowing. Water rate: 400 – 500 liters per hectare.

Apple

1st application at petal fall stage @ 1 ml/liter water (Foliar). 2nd application post-harvest @ 1 ml/ltr water (Foliar). Maximum water rate: 700-1000 liters per hectare.





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BORON ETHANOLAMINE 15% w/v SC

Micronutrient Fertilizer

Boron Ethanolamine 15% w/v SC is a liquid micronutrient fertilizer for crops that have a requirement for additional boron. Boron Ethanolamine 15% w/v SC is water soluble; thus, it is easily assimilated and absorbed by crops via foliar application. Foliar application of boron is useful to enhance the vine growth, number of fruits, fruit size, and yield of many cucurbitaceous crops (vegetable crops). Its application stimulates the growth of cambium tissues and apical meristems, promotes the mobility of calcium, and increases the production of pollen and fertilization. Boron Ethanolamine 15% w/v SC is a preventive and curative solution to control the insufficiency and deficiency of boron in various crops.

SYMPTOMS:

- Earliest signs of Boron deficiency show an alteration in the physiology of plants and trees that prevents the absorption of micronutrients (phosphorus, chlorides, potassium, etc.) from the soil.
- Leaves become small, thick, and brittle.
- Growing points start dying.
- The plant stem thickens, internodes shorten, and flowering, seed setting, and seed formation all decrease.

BENEFITS:

- Boron is an important micronutrient which is critical for the growth and health of all crops.
- Aids in the formation of the cell wall and ensures plant stability, including the movement of energy into plant growing parts.
- Flower and pollen formation is enhanced by the application and plays a role in final seed setting.
- Effective in nitrogen fixation and nodule formation in legume crops.
- Recovers the stunted root growth of plants.

SPECIFICATIONS:

Parameters	Specifications
Boron (B), % by volume, min.	15%
pH	8.5 ±1
Specific gravity	1.3-1.4

TARGET CROPS:

Crops	Foliar (per ltr. Water)
Beets, Carrots, Cucumbers	1-2 ml
Broccoli, Cabbage, Cauliflower, Melons	1-3 ml
Tomatoes, Potatoes, Peas, Lentils, Beans, Peppers	1-2 ml
Sugar Beets, Potato, Carrots	2-4 ml
Barley, Wheat, Corn, Soybeans, Sunflowers	1-2 ml
Apples, Grapes, Pears, Cherries, Peaches, Guava	1-2.5 ml
Horticulture Field	1-2 ml

TIME OF APPLICATIONS:

First: 20 days after planting.
Second: At flower initiation stage
Third: At fruit development (For hoticultural crops)





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Micronutrient Fertilizer

LIQUID CALCIUM 15% w/v SC

Liquid Calcium is a highly concentrated micronutrient liquid that allows a higher calcium input to be available to the plant. Liquid Calcium is applied during the flowering stage, and it stimulates internal chemical pathways that promote fruit set, resulting in increased fruit yields. The application of this micronutrient liquid makes the cell wall strong, which increases plant resistance to pests and disease. The product is specially formulated to provide maximum crop safety.

BENEFITS:

- Plays an extremely important role in the development of plant tissues and help plants to grow better.
- Helps in the better growth and development of the plant cell wall.
- Crucial to activate certain enzymes and to send signals that coordinate certain cellular activities in the plants.
- Makes calcium available to the plant for healthy root development and builds immunity inside the plant against attacking pests and pathogens.
- Enhances nutrient absorption by roots and its distribution inside the plant body.

SPECIFICATIONS:

Parameters	Specification
Calcium (Ca), % by volume, min.	15%
pH	9.5
Specific gravity	1.3-1.4

DOSAGE AND APPLICATION METHODS:

Crop	Dosage per Ltr of water	Application time
Field Crops	1.50 ml	1-2 times at flowering stage and at fruit fill time 10-15 days interval
Vegetable	1.50 ml	4-5 times flowering stage and at fruit fill time between 10-15 days interval
Fruit	2.00 ml	3-4 times at fruit set, fruit development and fruit set 10-15 days interval
Other Crops	1.50 ml	3-4 times at growth time and flowering time 10-15 days interval





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LIQUID CALCIUM 40% w/v SC

Micronutrient Fertilizer

Liquid Calcium 40% is a highly concentrated calcium suspension fertilizer formulated to correct calcium deficiencies and support healthy crop development. It delivers a readily available source of calcium that strengthens plant tissues, enhances cell wall formation, and improves overall crop quality. The advanced formulation ensures rapid absorption and efficient translocation within the plant, making it an ideal solution for improving growth, fruit firmness, shelf life, and resistance to physiological disorders.

BENEFITS:

- Supplies readily available calcium for rapid correction of calcium deficiency.
- Strengthens plant cell walls, resulting in stronger stems, leaves, and fruits.
- Promotes healthy root, shoot, and leaf development.
- Improves flowering, fruit set, and overall crop quality.
- Enhances fruit firmness, size, colour, and shelf life.
- Helps prevent calcium deficiency disorders such as blossom-end rot, tip burn, and fruit cracking.
- Supports efficient nutrient uptake and balanced crop growth.
- Improves crop tolerance to environmental and physiological stress.

SPECIFICATIONS :

Parameters	Specification
Appearance	Liquid Suspension
Total Calcium (Ca)	40% w/v
pH (10% Solution)	9-10
Specific Gravity	1.6 – 1.7

RECOMMENDED DOSAGE :

Crop(s)	Dosage
Fruit Crops	5 L/ha
Vegetable Crops	2–4 L/ha
Ornamental Crops	2–4 L/ha

APPLICATION METHOD :

Foliar Spray





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Micronutrient Fertilizer

GLYCINATE-BASED MICRONUTRIENTS

Glycinate-Based Micronutrients are premium amino acid–chelated nutrients designed to support plant growth and productivity. Essential nutrients such as zinc, boron, calcium, manganese, copper, magnesium, etc., are bound with glycine, ensuring superior stability, absorption, and transport within plants. This innovative formulation supports crop metabolism naturally, effectively addressing micronutrient deficiencies while promoting healthier growth and higher yields

BENEFITS:

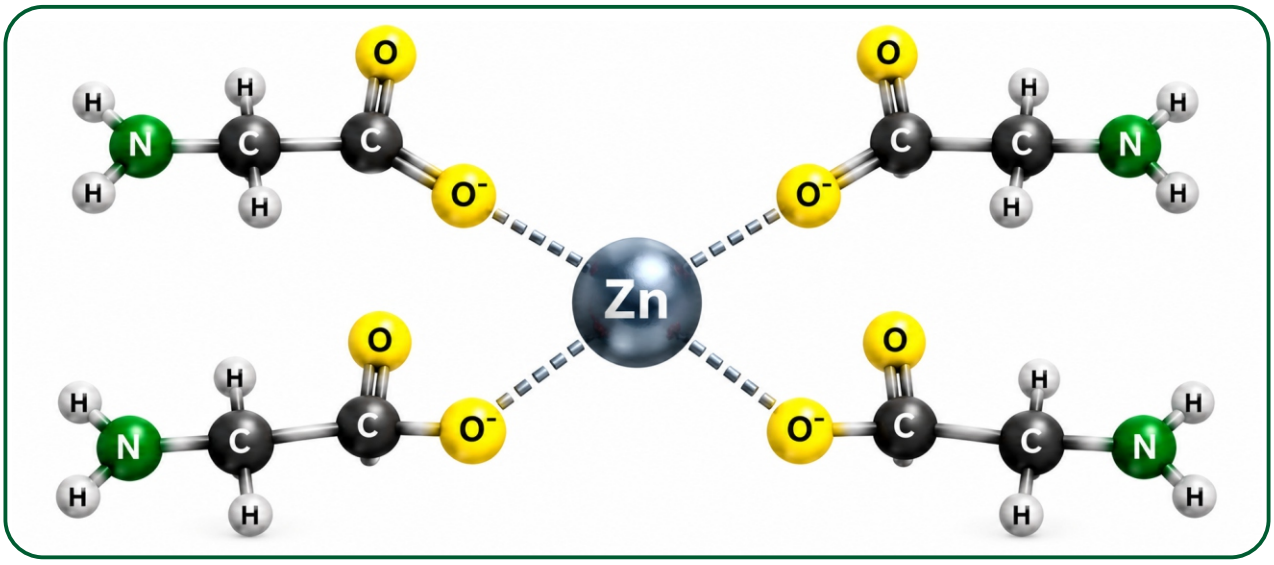
- Glycine chelation enables micronutrients to penetrate plant tissues efficiently and reach critical metabolic sites.
- These chelates maintain effectiveness across varied pH conditions, reducing nutrient lock-up and improving soil and foliar performance.
- Amino acid–based chelates are non-toxic, biodegradable, and gentle on both crops and soil microbiome.
- Supports enzyme activity, chlorophyll production, and overall plant metabolism for robust growth.
- Promotes uniform crop development, stronger roots, and enhanced produce quality with better appearance, taste, and storage life.

APPLICATION METHODS:

Foliar spray and fertigation

AVAILABLE FORMULATION:

Zinc Glycinate | Boron Glycinate | Calcium Glycinate | Magnesium Glycinate | Manganese Glycinate | Copper Glycinate
and many more







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LIQUID COPPER 50%

Micronutrient Fertilizer

It is a specialized solution to counter copper deficiencies in plants and boost agricultural productivity. This high-concentration liquid suspension is designed for efficient low-rate application, preventing deficiency symptoms and promoting higher crop yields. Copper deficiency can hinder plant growth due to leaching in sandy soils or fixation in clay soils. Our Liquid Copper Fertilizer provides a plant available copper source, addressing deficiency-related issues such as reduced photosynthesis, compromised water transport, and stunted growth. Particularly vital for crops like soybeans, citrus fruits, and corn, this fertilizer enhances nutrient absorption, resulting in healthier plants with better photosynthesis and stress resistance.

BENEFITS:

- Enzyme Cofactor: Copper serves as a crucial cofactor for various enzymes that drive essential growth processes in plants.
- Photosynthesis and Respiration Support: Copper plays a pivotal role in both photosynthesis and respiration by aiding in the production of chlorophyll and supporting respiratory enzyme systems.
- Reproductive Function Facilitator: Copper is essential for pollen development and fertilization, ensuring successful reproduction in plants.
- Disease Defence and Hormone Regulation: It participates in disease resistance and also helps regulate plant hormones, influencing growth and responses to stimuli.

Crop(s)	Application Timing	Dosages (L/ha)
Soybean/Common bean	During the third to fifth nodes (V3-V5)	0.25-0.5
Corn, Wheat	During the vegetative stage between V4-V6 Stage	0.25-0.5
Sugarcane	Foliar application before the rainy season	0.25-0.5
Citrus, Coffee	During vegetative growth	0.25-0.75
Tomatoes, Cucumbers, Peppers, Melons	10 Days after transplantation and apply again in a 7 day interval	0.25-0.5
Potato	Until last late blight	0.25-0.5
Wine	From 3rd leaf stage to until the grapes close	0.25-0.5





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Micronutrient Fertilizer

MANGANESE 50% w/v SC

Manganese (Mn 50% w/v) is a liquid micronutrient formulation that is readily absorbed and plays a vital role in plant growth and development. Additionally, Manganese facilitates the degradation of chloroplasts and helps increase chlorophyll levels. Furthermore, Manganese acts as a coenzyme for various enzymes essential for metabolic processes, including those involved in carbohydrate and nitrogen metabolism. It impacts plant health, growth, and overall performance, leading to healthier & higher-quality yields.

BENEFITS:

- Contributes to the production of amino acids
- Promotes root cell elongation
- Plays a role in defending plants against root pathogens
- Supports chlorophyll production
- It helps in the absorption of iron
- It regulates hormone signaling within the plant

APPLICATION METHODS:

Foliar spray: 1-2 L/ha
Drip irrigation: 2-4 L/ha
Seed Treatment: 3-5 L/tonnes of seed

CROP, APPLICATION STAGE & DOSAGES:

Crop(s)	Application Time	Dosage L/ha	Water L/ha
Alfalfa / Lucerne	At the vegetative stage, and at flower bud formation	1	50-200
Almond	At new leaf development, and at bud break	1	500-1000
Apple	Pre-flowering, 4 weeks after petal fall, after harvest before leaf senescence	1-1.5	500-800
Apricot	At fruit development, repeat at 10 days of interval, If required	1.5	200
Bean, Chickpea, Peas & Lupin	4 to 6 leaf stage, pre-flowering & early fruit development stage	1-1.5	50-200
Bracissa vegetables, Broccoli, Cauliflower, Cucumber, Cucurbits, Watermelon, Tomato, Squash, Spinach, and Pumpkin	4 to 6 leaf stage, repeat at 15 days of interval, if required	1	50-200
Carrot, Soyabean, Lentil, Groundnut, Zucchini, Garlic, and Onion	When the plant attains 15 cm, repeat at 15 days of interval, if required	1-2	50-200
Cherries	During fruit development	1-2	200
Cereals	2 leaf stage to 2nd node formation	1-2	50-200
Citrus	During spring & autumn flushes	1.25-1.5	500-1000
Cotton	20 to 30 days after emergence, repeat if needed at 15 days	1	50-200
Grapevines	At flower formation, bud separation & fruit development	1	500-1000
Kiwi	During shoot elongation & development, at petal fall and fruit development	1	400-800
Maize/Sweet corn	At 2 to 8 leaf stage	1-2	200
Mango	At bud development to the beginning of fruit development	1-2	500
Olives	At beginning of season	1	1000
Canola	4 to 6 leaf stage, at stem elongation	1	200
Papaya	Pre-flowering	1	400-600
Potatoes	15 days after sowing, at duber development	1-2	200
Strawberries	At green bud development	1	500

Note: The final application must be completed at least one month prior to harvest.





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POTASSIUM 46.5% w/v SL

Macronutrient Fertilizer

Potassium is a vital mineral nutrient for plants, playing a foundational role in plant health, growth, and overall productivity. It is essential for various physiological processes, including nutrient uptake, water regulation, photosynthesis, and disease resistance. In this introduction, we will explore the significance of potassium in plant life, its multifaceted roles, and how its presence or absence profoundly influences the well-being and performance of plants.

BENEFITS:

- **Water Regulation:** Potassium helps regulate water uptake and distribution within plants, reducing susceptibility to drought stress.
- **Photosynthesis:** It is essential for the opening and closing of stomata, facilitating carbon dioxide uptake for photosynthesis.
- **Nutrient Uptake:** Potassium aids in the absorption of other essential nutrients, optimizing overall nutrient utilization.
- **Disease Resistance:** Adequate potassium levels enhance plant immunity, reducing vulnerability to diseases and stressors.
- **Fruit Quality:** It contributes to better fruit size, color, and taste, making crops more marketable.
- **Stress Tolerance**: Potassium helps plants withstand environmental stress, such as extreme temperatures or salinity.
- **Yield Increase:** Proper potassium levels often lead to increased crop yields, contributing to higher productivity and economic returns in agriculture.
- **Overall Plant Health:** It supports strong cell walls, reduces lodging, and promotes general plant vigour.
- **Limited Water and Nutrient Uptake:** Potassium deficiency can impede a plant's ability to absorb water and essential nutrients from the soil.
- **Overall Growth Impairment:** Plants may exhibit stunted growth, delayed maturity.

Product	Fruit crops	Vegetables/ Pulses / Cereals
K 46.5%	2.5 – 5 L/ha	1.25 – 1.85 L/ha









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Macronutrient Fertilizer

SOLUBLE SILICA w/ POTASSIUM

Soluble Silica with Potassium (Potassium Salt of Silicic Acid) is a source of highly soluble potassium and silicon ions. Available in 100% Water Soluble Powder & Liquid form.

	K_2O	SiO_2
Powder	28 - 30%	58 - 60%
Liquid	12-15%	26-28%

BENEFITS:

- Applicable in any season or when plant requires the potassium ion.
- Ideal fit for Integrated Pest Management (IPM).
- Safe for beneficial arthropods and plants.
- Protect the plant by creating a protective barrier and strengthen the cell wall.
- Reduces climate stress on crops and improves crop quality.
- Provides resistance to mineral stress.
- Improves photosynthesis and raises brix in all plants for fruit ripening, which removes mineral deficiencies.
- Improves plant growth and increases yield and quality.
- Reduce the lodging.
- Enhances reproduction by improving pollination and increasing pollen fertility.

EFFICACY:

The application of Soluble Silica with Potassium is effective in potato, rice, and sugarcane. When it is applied every week during the crop cycle, it will result in an impressive yield increase of 20 - 25%. Silica controls the diseases in Rice, Soya bean, and Sorghum by reducing the brown spot presence, and it also manages the rust disease problem in plants.

TARGET CROPS:

Rice, Soybean, Sorghum, Melons, Tomato, Strawberry, Blueberry, Sugarcane, Grapes, Wheat, Barley, Cucurbits, Row Crops, Vine Crops, Ornamentals, Orchards, Vineyards, Hydroponically Grown Plants, Horticulture Crops

RECOMMENDED DOSAGES:

For Powder: Apply 300 - 400 gm in 300 L of water.
For Liquid: Apply 800 - 1200 ml in 300 L of water.





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NPK 7:21:0 Fortified w/ Zinc

Macronutrient Fertilizer

NPK 7:21:0 is a balanced liquid fertilizer designed to provide a quick and efficient supply of essential nutrients; Nitrogen (N) and Phosphorus (P O), fortified with Zinc. This formulation promotes strong root establishment, early vegetative growth, and uniform flowering. Ideal for foliar spray, fertigation, or soil drenching, it ensures maximum nutrient utilization and sustained plant development across all crop types.

BENEFITS:

- Supplies an ideal ratio of Nitrogen and Phosphorus for healthy root and shoot development.
- Promotes strong root architecture and enhanced nutrient uptake.
- Encourages early flowering, fruit set, and improved yield quality.
- Strengthens plants against stress conditions like drought and temperature fluctuations.
- Enhances phosphorus availability even in low-mobility soils.
- Compatible with most fertilizers and plant protection products.
- Suitable for use in all irrigation systems under integrated nutrient management programs.

RECOMMENDED CROPS, DOSAGE AND APPLICATION METHOD:

Crop(s)	Dosage (Per L of Water)	Application Method	Application Timing
Carrot & Root Crops	2-2.5 ml	Foliar spray	1-2 times at interval of 14 day when 6-8 leaves
Vegetables	2-2.5 ml	Foliar spray	1-2 times during growing condition
Potatoes	1.5-2 ml	Foliar spray	1-2 times from tuber initiation to promote root development and improve tuber set

DRIP IRRIGATION: 1 L/acre









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Macronutrient Fertilizer

NPK 11:11:8 FORTIFIED w/ ZINC & BORON (Suspension)

NPK 11:11:8 Fortified with Zinc & Boron (Suspension) is scientifically balanced to provide Nitrogen, Phosphorus, and Potassium, along with Zinc and Boron. The nutrient supply is uniform in both macro- and micronutrients, available in a form readily absorbable at all growth stages. The formulation enhances vegetative growth, improves flowering and fruit set, and strengthens crop resilience under stress conditions.

BENEFITS:

- Supplies balanced nutrition of N, P, K with essential micronutrients Zn & B.
- EDTA-chelated micronutrients ensure rapid nutrient absorption and mobility within plants.
- Promotes vigorous root and shoot growth.
- Enhances chlorophyll synthesis for prolonged greenness.
- Improves flowering, fruit set, and overall yield quality.
- Reduces nutrient stress and flower drop.
- Compatible with most agrochemicals.
- Helps maintain pH balance for efficient foliar uptake.
- Can be used post-harvest to improve next-season growth and minimize alternate bearing.
- It plays an important role in regulation of level of plant hormones.

RECOMMENDED CROPS, DOSAGE AND APPLICATION METHOD:

Crop(s)	Dosages	Application Method
Field, Vegetable, Pulse, Oilseed & Fodder Crops	500–750 ml/acre	Foliar spray
Fruit, Spice & Flower Crops	5–7 ml/L water	Foliar spray









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NK 6:0:18 FORTIFIED w/ CALCIUM MAGNESIUM & BORON (Suspension)

Macronutrient Fertilizer

NK 6:0:18 Fortified with Calcium Magnesium & Boron (Suspension) is a water-soluble suspension fertilizer formulated with 6% Nitrogen (N), 18% Potash (K O), along with Calcium, Magnesium, and Boron to provide balanced nutrition during critical crop growth stages. Its homogeneous suspension formulation ensures uniform nutrient distribution and rapid foliar absorption. It supports vegetative growth, improves photosynthesis, enhances flowering and fruit development, and promotes better crop quality and yield across a wide range of crops.

BENEFITS:

- Supplies high potassium to improve yield, stress tolerance, and fruit quality.
- Corrects calcium, magnesium, and boron deficiencies in one application.
- Enhances cell strength and integrity, reducing fruit disorders.
- Improves photosynthetic efficiency via magnesium supply.
- Promotes better fruit set and size through boron.
- Reduces the need for multiple separate micronutrient applications.

RECOMMENDED CROPS:

Suitable for a wide variety of crops: Fruits, Vegetables, Cereals, and Pulses.

DOSAGE:

100-150 Kg depending upon the crop nutrient requirement and soil conditions.









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Combination Nutrient Fertilizer

CALCIUM DIHYDROGEN PHOSPHATE

Calcium Dihydrogen Phosphate is a liquid phosphorus and calcium fertilizer designed to support balanced crop nutrition. It provides available phosphorus along with calcium to support root development, plant growth and structural development throughout the crop cycle.

BENEFITS:

- Provides readily available phosphorus and calcium.
- Supports strong root establishment and development.
- Supports cell division, energy metabolism and active plant growth.
- Calcium contributes to healthy cell wall and tissue development.
- Supports flowering, fruit development and overall crop quality.
- Suitable for integration into balanced crop nutrition programmes.

SPECIFICATIONS:

Parameter	Specification
Available Phosphorus (as P_2O_5), % by weight	22.0% min.
pH	1.1 ± 1
Specific Gravity	1.25–1.35 kg/L

DOSAGE:

- **Foliar Application:** 3-4 ml per litre water
- **Drip Application:** 1 litre per acre

RECOMMENDED CROPS:

Suitable on all crops.





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CALCIUM NITRATE FORTIFIED WITH MAGNESIUM (SUSPENSION)

Combination Nutrient Fertilizer

Calcium Nitrate fortified with Magnesium is a suspension formulation designed for efficient foliar nutrition. It provides calcium along with nitrogen and magnesium to support effective nutrient uptake, fruit development and overall crop quality. Its formulation promotes efficient calcium absorption and translocation within the plant.

BENEFITS:

- Provides an effective source of calcium, nitrogen and magnesium through foliar application.
- Promotes efficient calcium uptake and translocation within the plant.
- Supports fruit retention and improved fruit quality.
- Helps achieve more uniform fruit size throughout the plant.
- Offers higher calcium-use efficiency compared with conventional single calcium salt sprays.
- Formulated for effective nutrient uptake under varying weather conditions.
- Helps minimize the risk of phytotoxicity associated with conventional calcium sprays when used appropriately.
- Compatible with most commonly used pesticides.
- Provides nutrients in a form designed for efficient foliar absorption

SPECIFICATIONS:

Parameter	Specification
Total Nitrogen (N)	10%
Nitrate Nitrogen	8.5%
Calcium (CaO)	15%
Magnesium (MgO)	2%
Chloride (Cl)	2.5%
pH (1% solution)	8-9

TARGETED CROPS:

Field Crops, Vegetables, Pulses, Oilseeds, Fruit Crops, Spices, Flower Crops

APPLICATION METHOD:

Foliar spray

DOSAGE:

- Field crops, pulses, oilseeds and vegetables: 500–750 ml/acre
- Fruit crops, spices and flowers: 5–7 ml/L water





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Combination Nutrient Fertilizer

ZIMBO

Mg 5.8% + B 3.6% + Zn 7% w/w SC

It is a liquid product with a high concentration that is intended for foliar application. The product is perfect for giving magnesium, boron, and zinc during the developmental periods where they are most needed because it contains considerable levels of each of these components. Moreover, it can be applied prior to flowering to speed up fruit set and flowering.

BENEFITS:

- Increases flower and fruit production.
- Aids in the regulation of carbohydrate metabolism and phosphate translocation.
- Enhance photosynthesis and activates enzymes and growth hormones.
- Helps plants with rapid growth, and improves keeping quality of produce.

ROLES:

- **Magnesium** involved in the activation of enzymes in respiration and photo-synthesis.
- Helps in the synthesis of DNA and RNA.
- Maintain the structure of the ribosome.

- **Boron** facilitates sugar translocation and synthesis of nucleic acids and plant hormones.
- Essential for germination of pollen grain and growth.
- Facilitate seed and cell wall formation.
- Activates Dehydrogenase enzymes.

- **Zinc** promotes growth hormones and starch formation.
- Necessary for chlorophyll production
- Helps in chlorophyll production.

DEFICIENCY:

- Interveinal chlorosis in older leaves.
- Leaf tissue between veins becomes yellowish, bronze, or reddish.
- Premature leaf drop.

- Stunted growth, and death of buds.
- Leaves tend to be thick-ended and may curl and become brittle.
- Crop-specific, such as: Peanuts: hollow hearts, Celery: crooked and cracked stem, Beets: black hearts, Papaya: distorted and lumpy fruit, Cabbage: midribs crack and turn brown, Broccoli, and Cauliflower: pith in hollow stem, Mango: Flesh brown and rotten.

- Stunted growth.
- Reduced internode length.
- Twigs die back.
- Leaves that surround flower panicles are typically small, irregularly shaped, and have drooping spikes.

TARGET CROPS AND DOSAGE WITH APPLICATION TIME:

Crop(s)	Dosages	Application Time
Avocado	2-3 L/ha	During the fruit setting stage and fruit development stage.
Pineapple	2-3 L/ha	During fruit development stage after flowering.
Banana	2-3.5 L/ha	During the fruit setting stage and fruit development stage.
Citrus	2-5 L/ha	During the sprouting and fruit set stage.
Cocoa	2-4 L/ha	During the fruit setting stage and fruit development stage.
Coffee	1.5-3 L/ha	At the beginning of sprouting, fruit setting, and fruit development stages.
Potato	1-3 L/ha	After one week of 100% emergence of crop.





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CROP BOOST

P_2O_5 44% + K_2O 7% + MgO 6% + Zn 4.5% w/v SL

Combination Nutrient Fertilizer

This high-concentration liquid product is specifically designed for foliar application. It serves as an excellent source of Phosphate, Potash, Magnesium, and Zinc during critical developmental stages when these elements are in high demand. Additionally, it can be applied before flowering to promote accelerated fruit set and flowering.

BENEFITS:

- Phosphate and Potash are essential for plant growth, including roots, DNA, energy, and cell division.
- Magnesium enhances photosynthesis by aiding chlorophyll production, optimizing sunlight utilization for energy conversion.
- Zinc boosts plant disease resistance by strengthening defense mechanisms and increasing resilience to various stressors.
- Phosphate, Potash, and Zinc ensure quality fruit and seed development, essential for healthy, productive crops.

DOSAGE AND APPLICATIONS:

Crop(s)	Dosage	Application Time
Cereals, Oats, Wheat, Barley	5 L/ha	At tillering repeat at 10 to 14 day intervals if necessary. Water rate: 200 L/ha
Beans, Carrots	3-5 L/ha	When crop is 10 to 15 cm tall. Repeat if necessary at 10 to 14 day intervals. Water rate: 80 to 200 L/ha
Fodder, Beet, Oilseed crops	5 L/ha	For a single application is 5 L/ha at the onset of extension. For moderate deficiency 5L/ha at 4 to 6 leaf stage and at the onset of stem extension.
Onions	5 L/ha	Apply when the foliage is 15 cm tall. With a second application 10 to 14 days later if necessary. Also 1 to 2 application of 5 L/ha during bulb filling. With a 10 to 14 day interval between sprays. Water rate: 200 L/ha.
Oilseed rape	5 L/ha	Single application at the onset of stem extension. For moderate deficiency. 5 L/ha at 4 to 6 leaf stage and at and onset of stem extension. An extra application can be made 10 to 14 days later for severe deficiency. Water rate: 200 L/ha.
Turnip	3-5 L/ha	At the 4 to 6 leaf stages for moderate to severe deficiency. Repeat application should be made at the above rate at 10 to 14 day intervals as necessary throughout the season. water rate: 200L/ha.
Maize	5 L/ha	At the 4 to 8 leaf stages. Water rate: 30 to 200 L/ha. Note: Do not spray in slow-drying conditions. Alternatively, apply 2 to 5 L/ha at the 4 to 6 leaf stages and repeat 10 to 14 days later if necessary. Water rate: 30 to 200 L/ha.
Potatoes	10 L/ha	To increase tuber number: 10 L/ha at tuber initiation (when 50% at the tip swellings are twice the diameter of the rest of the stolen). To increase tuber size: a minimum of 2 applications of 5 L/ha during bulking (as soon as first formed tubers are 10 mm in diameter) and following peptiole analysis during tuber bulking. 10 to 14 days between application. Water rate: 200 L/ha.





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Combination Nutrient Fertilizer

CABZEE

Ca 21% + B 0.1% + Zn 1.5% w/w SC

It is a revolutionary flowable suspension concentrate fortified with Calcium, Zinc, and Boron. This unique formulation offers superior micronized elemental and suspension efficiency and uptake, leading to a range of benefits for your crops.

BENEFITS:

- It's concentrated formula allows for lower application rates compared to traditional Calcium products, making it more efficient and economical.
- It promotes cell division and elongation, leading to stronger and healthier plants.
- This Calcium-rich solution helps plants build stronger cell walls, resulting in increased resistance to stress and damage.
- It helps stimulate plants' natural defence mechanisms, making them more resilient to abiotic stresses like drought and heat.
- It facilitates the translocation of carbohydrates and nutrients within the plant, ensuring optimal growth and development.
- It improves the thickness of the outer skin of fruits and vegetables, leading to better shelf life and marketability.
- By addressing key growth factors, it has the potential to significantly improve overall crop yield and quality.

STANDARD SPECIFICATIONS:

Parameters	Specifications
Calcium (as Ca) percent by weight, minimum	21.0
Boron (as B) percent by weight, minimum	0.1
Zinc (as Zn) percent by weight, minimum	1.5
Specific Gravity	1.74 - 1.76
pH	8.5 - 10.0

Crop(s)	Application Stage	Dosage (L/ha)
Potato	After a week of emergence	1
Tomato & Chilli	Fruit set stage (45–55 DAT) Repeat applications at intervals of 15–20 days	
Apple, Citrus & Pomegranate	Fruit set stage Fruit development stage	1-1.5
Grapes	4 mm berry size 8 mm berry size 10 days after veraison stage	
Banana	At the bunch set stage At the bunch development stage 15 days before harvest	
Tea/Coffee	Before flowering, 8–10 days before harvest	
Other crops (Cereals, Pulses, Oilseeds, Other Fruit & Vegetables, etc.)	Fruit/Pod/Grain setting stage Fruit/Pod/Grain development stage	





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CALMOM

Ca 9% + B 1% SL

Combination Nutrient Fertilizer

It is a liquid calcium and boron fertilizer that is both pure and highly concentrated. Our formula's high calcium and boron content enhances the tensile strength of cell walls and promotes cell proliferation. Together, calcium and boron increase disease resistance. Using calcium boron liquid can help to improve the overall health and quality of plants by providing them with the necessary nutrients. It can also help to prevent nutrient deficiencies and improve crop yields.

BENEFITS:

- Prevents fruit and flower dropping.
- Reduces biotic & abiotic stress.
- Improves fruit storage capacity and fruit size.
- Helps in suppressing Ethylene developments.
- Calcium and boron sustain the consistency of the cell wall, ensuring the fruits' form and lustre.
- Improves the fruit and floral shelf life.
- It increases flowering process & better flower setting.

ROLES:

- **Calcium** is used as a calcium pectinate to form the middle lamella in the cell wall for the metabolism of lipids.
- Involved in the enlargement and division of the cell.
- Helps in the translocation of carbo-hydrates and also activates enzyme action in plants.

- **Boron** facilitates sugar translocation and synthesis of nucleic acids and plant hormones.
- Essential for germination of pollen grain and growth.
- Facilitate seed and cell wall formation.
- Activates Dehydrogenase enzymes.

DEFICIENCY:

- Growing tips of roots and leaves turn brown and die.
- Buds and blossoms fall prematurely.
- Younger leaves may be cupped and crinkled.
- Chlorotic and Necrotic spots.
- Blossom end rot disease.

- Stunted growth, and death of buds.
- Leaves tend to be thick-ended and may curl and become brittle.
- Crop-specific, such as: Peanuts: hollow hearts, Celery: crooked and cracked stem, Beets: black hearts, Papaya: distorted and lumpy fruit, Cabbage: midribs crack and turn brown, Broccoli, and Cauliflower: pith in hollow stem, Mango: Flesh brown and rotten.

TARGET CROPS:

Grapes, Pomegranate, Banana, Mango, Tomato, Onion, Strawberry, Watermelon, Apple, Cherries and Berries.

Dosage	Application Method	Application Time
1.25-2.5 L/ha	Drip Irrigation	At full bloom and after 15 days
2-3 ml/L of water as spray depending on crop and growth stages	Foliar spray	





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Combination Nutrient Fertilizer

AMEEBO

AMINO ACID 20% + B 7% + Zn 1% + Ca 1%

The liquid formulation is designed for all plants to prevent or correct amino acid, boron, and zinc deficiency which limit crop growth and yield. This mixture can be quickly absorbed by the leaves and transferred to the plant tissue. It aimed to improve the photosynthesis level of crops, thus increasing yield, and enhancing their ability to adapt the climate change.

BENEFITS:

- It stops the pre-abortion of buds.
- Increases flower and fruit production.
- Aids in the regulation of carbohydrate metabolism and phosphate translocation.
- Enhance photosynthesis and activates enzymes and growth hormones.
- Helps plants with rapid growth, and improves keeping quality of produce.
- Stimulates nutrient uptake and increases the chlorophyll content in the leaf of the plants.
- Boosts crop's resistance to drought, salinity, and other stressful conditions of yield.
- Aids in the formation of the cell wall and ensures plant stability, including the movement of energy into plant growing parts.

ROLES:	DEFICIENCY:
• **Amino Acid** responsible for protein synthesis, growth, and development. • Active roles in plant development and participation in the plant's response to environmental stresses. • Improves quality and quantity of dry matter in leafy vegetables and protein in grain crops.	• Stunted growth and reduction in cell division. • Pale green to light yellow color of leaves. • Reduced flowering.
• **Boron** facilitates sugar translocation and synthesis of nucleic acids and plant hormones. • Essential for germination of pollen grain and growth. • Facilitate seed and cell wall formation. • Activates Dehydrogenase enzymes.	• Stunted growth, and death of buds. • Leaves tend to be thick-ended and may curl and become brittle. • Crop-specific, such as: Peanuts: hollow hearts, Celery: crooked and cracked stem, Beets: black hearts, Papaya: distorted and lumpy fruit, Cabbage: midribs crack and turn brown, Broccoli, and Cauliflower: pith in hollow stem, Mango: flesh brown and rotten.
• **Zinc** promotes growth hormones and starch formation. • Necessary for chlorophyll production • Helps in chlorophyll production.	• Stunted growth. • Reduced internode length. • Twigs die back. • Leaves that surround flower panicles are typically small, irregularly shaped, and have drooping spikes.

TARGET CROPS:

Apple, Banana, Brinjal, Cabbage, Citrus, Cucurbits, Grapes, Maize, Mango, Pomegranate, Rice, Tomato, Cherries and Berries

Application Method	Dosage	Application Time
Foliar spray, drip irrigation, and soil application	2-3 ml per liter	Vegetative stage and before flowering





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NOTES

PBL®



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www.peptechbio.com

mail@peptechbio.com

+91-7291990294

Corporate Office:
903-909, 9th Floor, Big Jo's Tower,
Netaji Subhash Place, Delhi-110034, India

Manufacturing Facility:
Unit 1: Plot No. G1-633(A), G1-634, G1-635, G1-636, G1-643 & G1-644, RIICO Industrial Area, Chopanki, Bhiwadi-301019, Rajasthan, India
Unit 2: E-515, Industrial Area, Chopanki, Bhiwadi-301019, Rajasthan, India
Unit 3: B-1131, RIICO Industrial Area, Bandapur, Chopanki, Bhiwadi, Distt. Khairthal-Tijara (Raj.)