

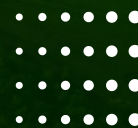
LACPRO BIOTECH INDUSTRIES

A New Direction For Improve Farming.....

PRODUCT CATALOGUE

Presented By

LACPRO BIOTECH



PRODUCT DIRECTORY

Sr.No.	Section Title	Page No.	Remarks
1	Company Profile	1 - 2	Introduction
2	Category-Wise Product Info.	3 - 7	Product Introduction
3	Water Soluble Fertilizers	8 - 16	Products Technical Info.
4	Bio-fertilizers	17 - 25	Products Technical Info.
5	Micronutrients	26 - 39	Products Technical Info.
6	Plant Growth Regulators	40 - 52	Products Technical Info.
7	Compatibility Guide Chart	53	Compatibility Guide
8	Crop Nutrition & Schedule	54	Schedule Info
9	Technical Note	55	Technical Info
10	Back Cover Page	56	Contact Info.

COMPANY PROFILE

Lacpro Biotech Industries is a renowned producer of a comprehensive range of products. We have catered to buyers locally, nationally, and internationally. Our extensive product line includes plant growth promoters, bio-fertilizers, organic fertilizers, micro-nutrients, and water-soluble fertilizers. We manufacture micro-nutrients, PGP (plant growth promoters), PGR (plant growth regulators), bio-fertilizers, and organic and water-soluble fertilizers, which are suitable for spray and drip irrigation or soil application for all types of crops in agriculture. We provide complete nutrient solutions for all plants and crops in the agricultural sector.

VISION & MISSION

Company Vision

Considering the hazards and long term losses associated with chemical farming and after studying environmental technologies in various countries, Lacpro Biotech Industries has developed a production technology tailored specifically for Indian agriculture.

Company Mission

Our aim is to facilitate the shift from chemical to organic farming by providing beneficial products. Our policy is to offer high-quality products that are both useful and profitable for the end user. With the strength of continuous research, advanced technology and exceptional quality, Lacpro Biotech Industries has established a strong market presence in India.

Quality

Farmer Prosperity

Precision & Efficiency

Scientific Innovation

**Our
Value**



CATEGORY-WISE PRODUCT INFORMATION

1. Water-Soluble Fertilizers (NPK Grades)

For rapid nutrient supply via drip irrigation and foliar spray.

- 30-10-10 – High nitrogen formula.
Ideal for vegetative stage and branching.
- 14-48-00 – Nitrogen ,Phosphatic Fertilizer
Promotes strong root development and early bud initiation.
- 20-20-20 – Balanced NPK.
Suitable for all crop stages.
- 5-40-28 – Phosphorus + Potassium blend.
Improves carbohydrate translocation, supports flowering and fruit development.
- 00-48-47 – Potassium phosphate grade.
Enhances fruit setting, improves size, color, and shelf life.
- Lacphos (Liquid 70%) – High-phosphorus liquid formulation.
Quick absorption, reduces soil fixation, and enhances flowering response.

- Potassium Schoenite – Natural mineral source of Potassium (K_2O ~23%) and Magnesium (MgO ~11%).
Dual nutrient supply improves fruit quality, enhances sugar content, and strengthens plant resistance.

- Magnesium Sulphate – Contains 9.5% Magnesium and 12% Sulphur.
Corrects magnesium deficiency, boosts chlorophyll formation, and improves greenness.

- Calcium Nitrate – 15.5% Nitrogen + 18.5% Calcium.
Provides quick nitrogen for vegetative growth and calcium for stronger cell walls, preventing fruit cracking.



2. Bio-Fertilizers (Bacteria & Fungi)

Unlocking soil nutrients and reducing fertilizer dependency.

- Primor (Bio-NPK) – Microbial blend supplying Nitrogen, Phosphorus, and Potash.

- Nitro Super – Nitrogen-fixing bacteria.

Converts atmospheric nitrogen into plant-available form, reduces urea requirement.

- Speedphos (PSB) – Phosphorus Solubilizing Bacteria. Converts unavailable phosphorus into plant-available form, improves soil fertility.

- Prominent (PSF) – Phosphorus Solubilizing Fungi. Works in varied soils, enhances phosphorus uptake, reduces chemical fertilizer need.

- K-Back – Potash Mobilizing Bacteria. Makes soil-bound potassium available, improves drought resistance.

- Potako – Enhanced Potash Mobilizing Bacteria. Boosts potassium uptake, improves fruit quality and sugar content.

- Prolac – Zinc solubilizing microbes.

Mobilizes soil-bound zinc, improves availability, and enhances crop yield.

- Mycropro WS – Water-soluble Mycorrhiza (VAM). Suitable for drip irrigation, expands root system, improves nutrient absorption.

- Mycropro GR – Granular Mycorrhiza (VAM). Applied directly to soil, ensures long-term root colonization and soil health.



3. Micronutrients

Correcting deficiencies for healthy crop growth.

- Lamino Plus – Multi-micronutrient mixture fertilizer (spray powder).
Supplies essential trace elements (Zn, Fe, Mn, Cu, B, Mo) to correct deficiencies, improve flowering, and enhance crop vigor.

- Microlac (Liquid) – Microlac (Liquid) – Balanced micronutrient blend (Zn, Fe, Mn, Cu, B, Mo). Chelated form ensures quick absorption and overall crop health.

- Lacprofert-DF – Multi-micronutrient mixture fertilizer (fertigation liquid form).
Designed for drip irrigation; provides balance micronutrients directly to the root zone for quick absorption and sustained growth.

- Lacprofert-SF – Solid micronutrient formulation.
Provides sustained release of trace elements for long-term balance.

- Bozinc (MH Grade-9) – Combination of Zinc and Boron.
Corrects dual deficiencies, improves flowering, fruit set, and prevents cracking.

- Eminent-Zn – Chelated Zinc (Zn-EDTA).
Corrects zinc deficiency, improves flowering and fruit set.

- Eminent-Fe – Chelated Iron (Fe-EDTA).
Boosts chlorophyll formation, prevents yellowing, enhances photosynthesis.

- Eminent-CA – Chelated Calcium (Ca-EDTA).
Strengthens cell walls, prevents fruit cracking, improves firmness.

- Lacbor – 20% Boron.
Prevents fruit cracking and enhances fruit set.

- Calmet – 11% Liquid Calcium.
Strengthens plant structure.

- Lacfert Fe Power – 19% Iron content.
Corrects iron deficiency, prevents chlorosis, and enhances photosynthesis.

- Lacprofert Eminent ZNSULF – 33% Zinc ($\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$).
Essential for enzyme activation, flowering, and fruit set.



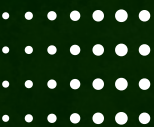
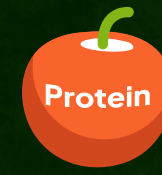
4. Bio-Stimulants & Growth Promoters

For vigorous growth, branching, and flowering.

- Lactogel – Combination of Humic, Fulvic, Seaweed, Amino Acids, and Vitamins.
Supports overall plant development and stress tolerance.
- Lamino – Hydrolyzed proteins and amino acids.
Stimulates flowering, enhances chlorophyll synthesis, and improves stress tolerance.
- Growth Max – 25% Protein Hydrolysates.
Accelerates vegetative growth.
- Lacto K – Ascophyllum Nodosum (15%).
Improves fruit quality and resistance.
- Bricks – Sargassum Seaweed (10%).
Provides natural plant hormones for balanced growth.
- Viable – Liquid Fermented Organic Fertilizer for Organic Farming.
Acts as a bio-stimulant, improves plant vigor, and enhances stress tolerance.



**100%
ORGANIC**



5. Soil Health & Protection

Improving soil structure, organic matter, and natural defense.

- Visible – Humic (10%) + Fulvic (2.5%) liquid.
Encourages white root formation.
- Ferman – Fermented organic extract.
Enhances soil organic carbon.
- Lacto Hum Gr – Humic + Bentonite granules.
Granular formulation designed to improve soil fertility and root health.
- Kundal – Ortho Silicic Acid (2%).
Acts as a natural protective shield for crops.
- Surul – Vasicine + Seaweed extract.
Acts as natural bio-pesticide, reduces chemical pesticide use.
- Swayam – Enhanced Vasicine + Seaweed extract.
Dual action: pest control + growth promotion, improves plant vigor.
- Lacto 80 – Spreader & Sticker.
Improves spray efficiency and coverage.
- Lacto Humic 98 – Humic Acid (Crystal form).
Improves soil structure, enhances nutrient uptake, and stimulates root growth.





Lacprofert

14-48-00

N

P

K

Root & Establishment Specialist

The Lacprofert14-48-00 grade is a high-analysis, water-soluble fertilizer specifically engineered for the early vegetative and root-establishment phases of crop growth. With its high phosphorus content (48%) and moderate nitrogen (14%), it ensures strong root initiation, balanced shoot development, and efficient nutrient uptake. Since it contains 0% Potassium, the plant's energy is focused entirely on building a robust foundation — roots and shoots — before shifting to reproductive growth.

Technical Profile

- Nitrogen (N): 14% — Provides balanced early vegetative growth without excess foliage.
- Phosphorus (P_2O_5): 48% — Stimulates root initiation, branching, and strong establishment.
- Potassium (K_2O): 0% — Focuses entirely on root and shoot development in early stages.
- Oxide Form : Including Chelated Trace Element — Improves nutrient absorption and protein synthesis.

Key Technical Benefits

1. Root Development: High phosphorus ensures rapid root hair proliferation and deeper rooting.
2. Early Growth Support: Controlled nitrogen promotes healthy shoots without excessive leafy growth.
3. Nutrient Uptake Efficiency: Strong root systems improve absorption of water and other nutrients.
4. Stress Tolerance: Sulfur enhances enzyme activity, helping plants withstand early-stage stress.
5. Foundation for Yield: By strengthening roots and early vegetative vigor, it sets the stage for higher productivity in later phases.

Application Guidelines

- Foliar Spray: 3–5 grams per liter of water (ideal during seedling and transplant stages).
- Drip / Fertigation: 2–3 kg per acre, depending on crop and soil fertility.
- Basal Application: Often used as a starter fertilizer to boost root establishment.

Ideal Crops

- Field Crops: Cotton, Soybean, Wheat, Maize.
- Horticulture: Grapes, Banana, Citrus, Pomegranate.
- Vegetables: Tomato, Chili, Onion, Capsicum.
- Commercial Crops: Sugarcane, Pulses, Oilseeds.

Available Packaging

1kg, 5kg, 25kg.

“14-48-00: The Root Builder – Strong Foundations for Strong Yields!”



Lacprofert

30-10-10

N

P

K

Premium High-Nitrogen Fertilizer for Vegetative Growth

The Lacprofert 30-10-10 grade is a high-analysis, water-soluble fertilizer specifically engineered for the vegetative growth phase of crops. With its high nitrogen content (30%), it drives rapid leaf expansion, lush canopy formation, and strong shoot development. The balanced addition of phosphorus (10%) and potassium (10%) ensures healthy root support and stem strength, while maintaining resilience against stress. This formulation is ideal for crops that require vigorous early growth before transitioning to reproductive stages. “Lacprofert 30-10-10 is a premium vegetative-phase fertilizer designed to energize leaf and shoot growth, building a strong canopy for higher yields.”

Technical Profile

- Nitrogen (N): 30% — Provides vigorous vegetative growth, rapid leaf expansion, and strong shoot development.
- Phosphorus (P_2O_5): 10% — Supports root establishment and energy transfer.
- Potassium (K_2O): 10% — Enhances stem strength, water regulation, and overall plant resilience.
- Micronutrients : Often includes Boron and chelated trace elements for balanced nutrition.

Key Technical Benefits

1. Rapid Vegetative Growth: High nitrogen ensures lush foliage and fast canopy development.
2. Balanced Root Support: Phosphorus aids in root initiation and nutrient uptake efficiency.
3. Improved Plant Strength: Potassium contributes to stronger stems and better stress tolerance.
4. Efficient Nutrient Uptake: Chelated micronutrients ensure quick absorption and prevent deficiencies.
5. Versatile Use: Suitable for foliar sprays, fertigation, and nursery applications.

Application Guidelines

- Foliar Spray: 2–3 grams per liter of water (ideal during vegetative growth stages).
- Drip / Fertigation: 2–3 kg per acre, depending on crop type and soil fertility.
- Nursery & Greenhouse: Often used for bedding plants, foliage crops, and containerized nursery stock.

Ideal Crops

- Field Crops: Maize, Wheat, Rice, Cotton.
- Horticulture: Banana, Citrus, Grapes.
- Vegetables: Leafy greens, Tomato, Chili, Capsicum.
- Ornamentals: Bedding plants, nursery stock, foliage plants.

Available Packaging

1kg, 5 kg, 25kg.

“Lacprofert 30-10-10: The Nitrogen Powerhouse for Vigorous Growth!”



Lacprofert

05-40-28

N

P

K

Flowering & Fruit Development Specialist

The Lacprofert 5-40-28 grade is an advanced water-soluble fertilizer specifically designed for the flowering and fruit-setting stages of crops. It provides a high concentration of Phosphorus (P) and Potassium (K) with a small amount of Nitrogen (N) to boost reproductive growth without excessive vegetative growth.

Technical Profile

- Nitrogen (N): 5% — Provides minimal support for leaf health during the reproductive phase.
- Phosphorus (P_2O_5): 40% — High content to stimulate profuse flowering, strong root development, and energy transfer.
- Potassium (K_2O): 28% — Essential for fruit setting, uniform fruit shape, and better translocation of sugars.
- Formulation: 100% Water Soluble (WSF), often fortified with Trace Elements (TE).

Key Technical Benefits

1. **Flowering & Setting:** Significantly increases the number of flowers and improves fruit setting while reducing flower/fruit drop.
2. **Fruit Quality:** Promotes uniform growth and shape of developing fruits, ensuring export-quality production.
3. **Durability:** Reduces fruit cracking during harvest and improves shelf life during transport and storage.
4. **Stress Management:** Increases the plant's energy levels to sustain the "source-to-sink" supply of metabolites during heavy fruiting.

Application Guidelines

- Recommended Stages: Ideal from flower initiation to fruit maturation.
- Foliar Spray: 5 grams per litre of water.
- Drip/Fertigation: 2–3 kg per acre or as per crop-specific requirements.
- Compatibility: Can be mixed with most pesticides, but avoid mixing with calcium- or magnesium-based products to prevent precipitation.

Ideal Crops

- Vegetables: Tomato, Chilli, Onion, Ginger, Turmeric.
- Fruit Crops: Grapes, Pomegranate, Banana, Citrus, Watermelon.
- Field Crops: Cotton (for boll development), Soybeans, and Pulses.

Available Packaging

1kg, 5 kg, 25kg.

“Lacprofert 05-40-28: Balanced Power for Blossoms & Bountiful Harvests!”



Lacprofert

00-48-47

N

P

K

Premium Flowering & Fruit Development Fertilizer

The Lacprofert 00-48-47 grade is a premium, high-analysis water-soluble fertilizer specifically engineered for the reproductive and fruit-development phases. Since it contains 0% Nitrogen, it prevents unwanted vegetative growth and diverts the plant's total energy toward flowering and fruiting.

Technical Profile

- Nitrogen (N): 0% — Stops excessive leafy growth.
- Phosphorus (P_2O_5): 48% — Boosts flower initiation and strengthens the root system.
- Potassium (K_2O): 47% — Improves fruit size, luster, sugar content (Brix), and weight.

Key Technical Benefits

1. **Flower & Fruit Retention:** Effectively prevents the shedding of flowers and immature fruits (flower/fruit drop).
2. **Fruit Quality & Finish:** High Potassium levels ensure a vibrant color, uniform shape, and enhanced skin texture (Luster), making the produce highly marketable.
3. **Sugar Translocation:** Accelerates the movement of sugars from leaves to fruits, improving taste and sweetness.
4. **Drought & Disease Resistance:** Toughens the plant's cell walls, making it more resistant to environmental stress and pest attacks.
5. **Enhanced Shelf Life:** Improves the durability of the harvest, ensuring it remains fresh during long-distance transport.

Application Guidelines

- Foliar Spray: 3 to 5 grams per liter of water. (Best applied during pre-flowering and fruit-set stages).
- Drip / Fertigation: 2 to 3 kg per acre, depending on the crop and soil requirement.

Ideal Crops

- Horticulture: Grapes, Pomegranate, Citrus, Mango, Banana, and Watermelon.
- Vegetables: Tomato, Chili, Capsicum, Onion, Ginger, and Turmeric.
- Commercial Crops: Cotton, Soybean, and Pulses.

Available Packaging

1kg, 5 kg, 25kg.

"Lacprofert 00-48-47: The Power Duo of Phosphorus & Potassium for Superior Yield and Export-Quality Produce!"



Lacprofert

20-20-20

N

P

K

Balanced All-Purpose Fertilizer

The Lacprofert 20-20-20 grade is a premium, fully water-soluble fertilizer specifically engineered for the balanced nutrition phase of crop growth. With equal proportions of Nitrogen, Phosphorus, and Potassium (20% each), it provides a complete nutrient package that supports vegetative growth, root development, and reproductive strength. This formulation is ideal for maintaining overall plant health and ensuring uniform growth across different crop stages.

Technical Profile

- Nitrogen (N): 20% — Drives vegetative growth, leaf expansion, and chlorophyll formation.
- Phosphorus (P_2O_5): 20% — Strengthens roots, improves flower initiation, and enhances energy transfer.
- Potassium (K_2O): 20% — Improves fruit size, luster, sugar content, and stress tolerance.
- Micronutrients : Often fortified with trace elements (TE).

Key Technical Benefits

1. **Balanced Growth:** Equal NPK ensures uniform development of roots, shoots, and fruits.
2. **Versatility:** Suitable for all crop stages — vegetative, flowering, and fruiting.
3. **Stress Resistance:** Potassium strengthens cell walls, improving drought and disease tolerance.
4. **Improved Yield Quality:** Enhances fruit weight, sweetness, and marketable appearance.
5. **Universal Application:** Works across field crops, horticulture, vegetables, and ornamentals.

Application Guidelines

- Foliar Spray: 3–5 grams per liter of water (ideal for balanced nutrition during growth and flowering).
- Drip / Fertigation: 2–3 kg per acre, depending on crop type and soil fertility.
- Supplemental Use: Can be applied at multiple crop stages to maintain balanced nutrition.

Ideal Crops

- Field Crops: Cotton, Maize, Wheat, Rice, Soybean.
- Horticulture: Grapes, Citrus, Banana, Mango, Pomegranate.
- Vegetables: Tomato, Chili, Capsicum, Onion, Leafy greens.
- Ornamentals: Nursery plants, flowers, and foliage crops.

Available Packaging

1kg, 5 kg, 25kg.

“Lacprofert 20-20-20: The Balanced Nutrition Formula for All Crops!”



Lacprofert

Potassium Schoenite



Natural Source of Potassium & Magnesium

Lacprofert Potassium Schoenite is a natural, fully water-soluble fertilizer containing Potassium & Magnesium in a balanced form. It is chlorine-free, making it ideal for chlorine-sensitive crops such as tobacco, potato, sugarcane, and grapes. It provides a dual benefit of improving fruit quality and enhancing plant resilience.

Technical Profile

- Potassium (K_2O): ~23% — Improves fruit size, luster, sweetness (Brix), and weight.
- Magnesium (MgO): ~11% — Essential for chlorophyll formation and photosynthesis.

Key Technical Benefits

1. **Flower & Fruit Retention:** Reduces flower drop and immature fruit shedding.
2. **Fruit Quality:** Potassium ensures attractive color, uniform shape, and marketable produce.
3. **Leaf Greenness:** Magnesium supports chlorophyll production, giving leaves a healthy green color.
4. **Stress Resistance:** Sulfur strengthens cell walls, improving drought and disease tolerance.
5. **Safe for Sensitive Crops:** Chlorine-free formulation protects crops like tobacco and potato.

Application Guidelines

- Foliar Spray: 3–5 grams per liter of water.
- Drip / Fertigation: 5 kg per acre, depending on crop and soil fertility.

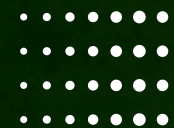
Ideal Crops

- Horticulture: Grapes, Pomegranate, Banana, Citrus, Mango, Watermelon.
- Vegetables: Tomato, Chili, Onion, Ginger, Turmeric.
- Commercial Crops: Sugarcane, Cotton, Tobacco, Soybean.
- Floriculture & Protected Cultivation: Flowers and greenhouse crops.

Available Packaging

1kg, 5 kg, 25kg.

“Lacprofert Potassium Schoenite: The Natural Power of Potassium & Magnesium for Premium Quality Produce!”





Lacprofert

Calcium Nitrate

Ca

Premium Source of Calcium & Nitrate Nitrogen

Lacprofert Calcium Nitrate is a fully water-soluble fertilizer specifically engineered to supply readily available nitrate nitrogen and soluble calcium. It is widely used in fertigation and foliar applications to strengthen plant cell walls, improve nutrient uptake, and prevent calcium-related deficiencies such as blossom end rot in tomato and tip burn in leafy vegetables. Its dual action supports both vegetative growth and fruit quality.

Technical Profile

- Nitrogen (N): ~15% (as Nitrate-N) – Provides immediately available nitrogen for rapid vegetative growth.
- Calcium (CaO): ~18-19% – Strengthens cell walls, improves firmness, and enhances shelf life.
- Water Solubility: 100% soluble, ideal for drip irrigation and foliar sprays.
- Chlorine-Free: Safe for sensitive crops.

Key Technical Benefits

1. **Rapid Nitrogen Supply:** Nitrate form ensures quick uptake and efficient photosynthesis.
2. **Calcium Nutrition:** Prevents physiological disorders like blossom end rot, bitter pit, and tip burn.
3. **Improved Fruit Quality:** Enhances firmness, shelf life, and transportability of produce.
4. **Stress Resistance:** Strengthens cell walls, improving tolerance to drought and disease.
5. **Compatibility:** Can be mixed with most water-soluble fertilizers (except concentrated phosphates and sulfates).

Application Guidelines

- Foliar Spray: 2– 5 grams per liter of water (during vegetative and fruit development stages).
- Drip / Fertigation: 5 kg per acre, depending on crop type and soil fertility.
- Supplemental Use: Especially recommended during fruit set and development to prevent calcium deficiency.

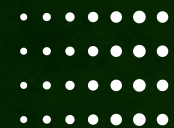
Ideal Crops

- Horticulture: Tomato, Capsicum, Grapes, Citrus, Apple, Banana.
- Vegetables: Leafy greens, Onion, Cabbage, Cauliflower.
- Commercial Crops: Sugarcane, Cotton, Tobacco.

Available Packaging

1kg, 5 kg, 25kg.

“Lacprofert Calcium Nitrate: The Dual Power of Nitrogen & Calcium for Stronger Plants and Better Quality Produce!”





Lacprofert

Magnesium Sulphate

Mg

Premium Source of Magnesium & Sulfur

Lacprofert Magnesium Sulphate is a fully water-soluble fertilizer that provides crops with essential Magnesium and Sulfur. It plays a critical role in chlorophyll formation, photosynthesis, protein synthesis, and enzyme activation. This fertilizer is widely used to correct magnesium and sulfur deficiencies, ensuring greener leaves, stronger growth, and improved yield quality.

Technical Profile

- Magnesium (MgO): ~9.5–10% — Vital for chlorophyll production and photosynthesis.
- Sulfur (S): ~12–13% — Enhances protein synthesis, enzyme activity, and disease resistance.
- Water Solubility: 100% soluble, ideal for foliar sprays and fertigation.
- Chlorine-Free: Safe for sensitive crops.

Key Technical Benefits

1. Leaf Greenness: Magnesium boosts chlorophyll, keeping leaves dark green and healthy.
2. Photosynthesis Efficiency: Improves energy production and overall plant vigor.
3. Protein Formation: Sulfur supports amino acid and enzyme synthesis.
4. Stress Resistance: Strengthens plant resilience against drought and diseases.
5. Deficiency Control: Corrects magnesium and sulfur deficiencies that cause yellowing leaves and poor growth.

Application Guidelines

- Foliar Spray: 3–5 grams per liter of water.
- Drip / Fertigation: 5 kg per acre, depending on crop and soil fertility.
- Supplemental Use: Especially recommended when leaf yellowing or sulfur deficiency symptoms appear.

Ideal Crops

- Horticulture: Grapes, Pomegranate, Citrus, Mango, Banana.
- Vegetables: Tomato, Chili, Onion, Leafy greens.
- Commercial Crops: Sugarcane, Cotton, Soybean.
- Floriculture: Flowers and ornamental plants.

Available Packaging

1kg, 5 kg, 25kg.

“Lacprofert Magnesium Sulphate: Natural Nutrition for Greener Leaves and Higher Yields!”



Lacphos



Lacphos (Superphosphoric Acid 70%) – Premium Liquid Phosphorus Fertilizer

Lacphos (Superphosphoric Acid 70%) is a high-analysis liquid fertilizer specifically engineered to deliver readily available phosphorus in concentrated form. With its 70% P_2O_5 equivalent, it is one of the most efficient sources of phosphorus for crops, ensuring rapid root establishment, improved flowering, and enhanced energy transfer. Being liquid and fully water-soluble, it is ideal for fertigation, foliar sprays, and blending with other liquid fertilizers.

Technical Profile

- Phosphorus (P_2O_5 equivalent): ~70% — Highly concentrated, immediately available for plant uptake.
- Form: Liquid, water-soluble, suitable for fertigation and foliar application.
- Compatibility: Can be blended with nitrogen and potassium liquid fertilizers for customized nutrient solutions.
- pH: Acidic, helps in solubilizing micronutrients in soil.

Key Technical Benefits

1. Root Establishment: High phosphorus ensures rapid root initiation and branching.
2. Flowering & Fruiting: Promotes flower initiation, reduces flower drop, and supports fruit set.
3. Energy Transfer: Phosphorus plays a key role in ATP formation, driving plant metabolism.
4. Nutrient Availability: Acidic nature improves solubility of micronutrients like zinc and iron in soil.
5. Flexibility: Can be used alone or in blends for fertigation programs.

Application Guidelines

- Soil Application: 1–2 liters per acre, depending on crop and soil fertility.
- Blending: Often mixed with nitrogen and potassium sources to create balanced liquid fertilizers.

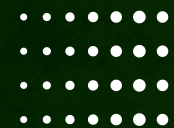
Ideal Crops

- Field Crops: Cotton, Soybean, Maize, Wheat.
- Horticulture: Grapes, Citrus, Banana, Pomegranate, Mango.
- Vegetables: Tomato, Chili, Onion, Capsicum.
- Commercial Crops: Sugarcane, Pulses, Oilseeds.

Available Packaging

1 liter, 5 liter, 35kg.

“Lacphos : The Liquid Power of Phosphorus for Strong Roots and High Yields!”





Potako



Technical Profile: Potako (Potash Mobilizing Bio-Fertilizer)

Potako is a high-potency bio-fertilizer containing Potassium Mobilizing Bacteria (KMB). While soil often contains vast amounts of insoluble potash, plants cannot absorb it directly. Potako secretes organic acids that dissolve these fixed potash compounds, making them readily available to the plant roots.

Technical Profile

- Active Ingredient: Potassium Mobilizing Bacteria (KMB).
- Viable Cell Count:
5 × 10⁸ CFU/ml or gm (Min. 500 million cells per ml/gm).
- Formulation: Stabilized Liquid or Powder.

Key Technical Benefits

1. **Potash Solubilization:** Converts insoluble soil potash into a soluble form, reducing the dependency on chemical potash fertilizers (MOP/SOP) by 20–25%.
2. **Fruit Quality:** Enhances the translocation of sugars to fruits, resulting in better Brix (sweetness), size, and weight.
3. **Drought Resistance:** Improves the plant's water-use efficiency, helping crops withstand dry spells and thermal stress.
4. **Sturdy Stems:** Strengthens the plant's internal structure, providing better resistance against lodging (falling) and pests.
5. **Eco-Friendly:** Improves soil health and microbial activity without leaving any chemical residue.

Application Guidelines

- Drip / Fertigation: 1 Kg per acre.
- Drenching: 1 Kg per 200 liters of water near the root zone.

Ideal Crops

- Field Crops: Sugarcane, Cotton, Soybean, Maize, Wheat.
- Horticulture: Grapes, Pomegranate, Citrus, Banana, Papaya.
- Vegetables: Tomato, Chili, Onion, Potato, Ginger, Turmeric.

Available Packaging

1kg.

"Potako: Unlocking the Power of Soil Potash for Heavier and Sweeter Yields!"



Technical Profile: Speedphos (Phosphorus Solubilizing Bio-Fertilizer)

Speedphos is a high-potency bio-fertilizer containing Phosphorus Solubilizing Bacteria (PSB). Most of the chemical phosphorus applied to the soil (like DAP or 10:26:26) gets fixed and becomes unavailable to plants. Speedphos secretes organic acids that dissolve this "locked" phosphorus, making it readily available for root absorption.

Technical Composition

- Active Ingredient: Phosphorus Solubilizing Bacteria (PSB).
- Viable Cell Count:
5 × 10⁸ CFU/ml or gm (Min. 500 million live cells per ml/gm).
- Formulation: Stabilized Liquid or High-grade Powder.

Key Technical Benefits

1. Phosphorus Liberation: Converts insoluble soil phosphates into soluble forms, potentially reducing the need for chemical phosphatic fertilizers by 25% to 30%.
2. Vigorous Root Development: By making phosphorus available, it stimulates the rapid growth of primary and secondary roots, improving nutrient uptake.
3. Enhanced Flowering: Adequate phosphorus levels at the right time lead to profuse budding and better flower-to-fruit conversion.
4. Soil Reclamation: Helps in breaking down calcium phosphates in the soil, which improves soil structure and porosity.
5. Growth Promotion: Secretes growth-promoting substances and vitamins that boost early seedling vigor and overall plant health.

Recommended Dosage & Application

- Drip / Fertigation: 1 Kg per acre.
- Soil Application: Mix 1 Kg of Speedphos with 200 liters of water near the root zone.

Ideal Crops

- * Field Crops: Sugarcane, Cotton, Soybean, Maize, Wheat.
- * Horticulture: Grapes, Pomegranate, Citrus, Banana, Papaya.
- * Vegetables: Tomato, Chili, Onion, Potato, Ginger, Turmeric.

Available Packaging

1kg.

"Speedphos: Unlock the Hidden Phosphorus for Rapid Growth and Stronger Roots!"

Speedphos





Prominent



Technical Profile: Prominent (Water Soluble Phosphate Solubilizing Fungal Biofertilizer)

Prominent is a high-potency, 100% water-soluble biological formulation containing specialized strains of Phosphate Solubilizing Fungi (PSF). It is specifically engineered for modern irrigation systems like drip and fertigation to unlock chemically "fixed" phosphorus in the soil and make it available for plant uptake.

Technical Specifications

- Active Ingredient: Phosphate Solubilizing Fungi (PSF).
- Spore Count (Minimum):
1 × 10⁶ Spores per gram (guaranteeing 2500 million active spores per 500g pack).
- Formulation: 100% Water-Soluble Fine Powder.
- Insoluble Matter: Nil (Ensures zero clogging of drip emitters and spray nozzles).

Mechanism of Action (How it Works)

1. Organic Acid Secretion: Unlike bacterial solubilizers, the fungi in Prominent secrete more powerful organic acids (Citric, Oxalic, and Gluconic acids). These acids lower the micro-environment pH around the roots, dissolving insoluble mineral phosphates.
2. Chelation: It produces organic acid anions that act as natural chelating agents, binding to Calcium, Iron, and Aluminium ions that usually "lock" phosphorus, thereby releasing free phosphate ions.
3. Enzymatic Activity: Produces Acid Phosphatases, enzymes that mineralize organic phosphorus into an inorganic form that plants can easily absorb.
4. Hyphal Network: Being a fungus, it develops a network of threads (hyphae) that extend far beyond the root's reach, scavenging for phosphorus and transporting it back to the plant.

Key Technical Benefits

- Efficiency in All Soils: Highly effective in both Calcareous (Alkaline) and Acidic soils where phosphorus fixation is a major problem.
- Chemical Fertilizer Savings: Reduces the dependency on expensive phosphatic fertilizers (DAP/SSP/NPK) by 25% to 30%.
- Instant Activation: The water-soluble formulation ensures that the fungal spores activate immediately upon contact with moisture in the root zone.
- Structural Development: Adequate phosphorus supply from Prominent leads to explosive white root growth and sturdier stems.
- Stress Tolerance: Enhances the plant's ability to withstand drought and salinity by improving overall nutrient-use efficiency.

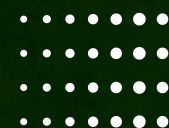
Recommended Dosage & Application

- Drip Irrigation / Fertigation: 500 grams per acre.
- Drenching: Mix 500 grams in 200 liters of water and apply near the root zone of plants.
- Best Time to Apply: within the first 45 days of the crop cycle.

Available Packaging

500gm.

"Prominent: The Advanced Fungal Power to Unlock Fixed Phosphorus with 100% Solubility!"





Primor



Technical Profile: PRIMOR (NPK Biological Consortia)

PRIMOR is an advanced liquid-based microbial consortium that combines Nitrogen-fixing, Phosphorus-solubilizing, and Potassium-mobilizing microorganisms. It serves as a complete biological solution to provide a balanced supply of N, P, and K to crops by harnessing the natural power of beneficial bacteria.

Technical Composition

- Formulation: Stabilized Liquid Microbial Consortia.
- Total Viable Count:
 1.5×10^8 CFU/ml (combined).
- Individual Microbial Count:
Azospirillum (Nitrogen Fixer):
Min. 5×10^7 cells/ml.
- PSB (Phosphorus Solubilizing Bacteria):
Min. 5×10^7 cells/ml.
- KSB (Potassium Mobilizing Bacteria):
Min. 5×10^7 cells/ml.

Key Technical Benefits

1. Triple Action Formula: Fixes atmospheric Nitrogen, dissolves "locked" Soil Phosphorus, and mobilizes insoluble Potassium simultaneously.
2. Chemical Fertilizer Savings: Can reduce the dependency on chemical NPK fertilizers by 25% to 30%, significantly lowering input costs.
3. Hormonal Secretion: These bacteria secrete natural growth-promoting substances (Indole Acetic Acid & Gibberellins) that boost root and shoot vigor.
4. Soil Health Restoration: Enhances the organic carbon cycle and microbial population of the soil, making it more fertile over time.
5. Balanced Nutrition: Ensures a steady and balanced supply of all three primary nutrients throughout the crop cycle.

Recommended Dosage & Application

- Drip Irrigation / Fertigation: 1 to 2 Liters per acre.
- Soil Drenching: Mix 2 Liter in 200 Liters of water and apply near the root zone.
- Seed Treatment: 10 ml per kg of seeds.

Available Packaging

1liter, 5liter.

"PRIMOR: The All-in-One Biological Power for Balanced Nutrition and Bumper Yields!"



K-Back



Technical Profile: K-BACK (Potassium Mobilizing Biofertilizer)

K-BACK is a high-potency, water-soluble biofertilizer containing specialized Potassium Mobilizing Bacteria (KMB). While soil contains large reserves of potash, most of it is in an insoluble "fixed" form. K-BACK secretes organic acids that break down these complex minerals, making potash readily available for plant uptake.

Technical Composition

- Active Ingredient: Potassium Mobilizing Bacteria (KMB).
- Total Viable Count:
1 × 10⁸ CFU/ml (100 million active cells per ml).
- Formulation: 100% Water-Soluble Liquid.

Key Technical Benefits

1. Potash Enrichment: Unlocks and mobilizes insoluble soil potash, significantly reducing the requirement for chemical potash fertilizers (MOP/SOP) by 20–25%.
2. Sugar Translocation: Plays a vital role in moving sugars from leaves to fruits/tubers, leading to better Brix (sweetness), improved weight, and superior luster.
3. Water Management: Enhances the plant's ability to manage stomatal activity, helping crops survive drought and thermal stress.
4. Structural Strength: Increases cellulose and lignin production, making the plant's stem stronger and more resistant to lodging (falling) and pests.
5. Clean Fertigation: Its 100% water-soluble nature ensures zero clogging in drip irrigation systems and better distribution in the root zone.

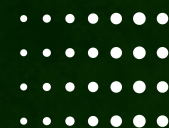
Recommended Dosage & Application

- Drip Irrigation / Fertigation: 1 Liter per acre.
- Drenching: 1 Liter per 200 Liters of water applied near the root zone.

Available Packaging

1 Liter, 5 Liters.

"K-BACK: The Water-Soluble Power to Unlock Soil Potash for Sweeter and Heavier Yields!"





Prolac



Technical Profile: Prolac (High-Potency Zinc Solubilizing Bio-fertilizer)

Prolac is a specialized biological formulation containing a massive concentration of Zinc Solubilizing Bacteria (ZSB). While most soils contain zinc, it is often in an insoluble mineral form that plants cannot absorb. Prolac secretes powerful organic acids that dissolve these "locked" zinc compounds, ensuring a steady supply of Zinc for plant growth.

Technical Composition

- Active Ingredient: Zinc Solubilizing Bacteria (ZSB).
- Spore Count: 5,000 Million 5×10^9 Viable Spores per gram.
- Carrier: Dextrose Q.S. (100% Water Soluble).

Key Technical Benefits

1. Massive Spore Count: With 5 billion spores per gram, it ensures rapid colonization and high efficiency in the root zone.
2. Zinc Mobilization: Converts insoluble soil zinc into a plant-available form, reducing the need for chemical zinc fertilizers by 25–30%.
3. Hormone Catalyst: Zinc is essential for Auxin production. Prolac promotes better stem elongation, leaf expansion, and overall plant height.
4. Corrects Deficiencies: Effectively treats symptoms like "Little Leaf," "Rosetting," and yellowing between leaf veins.
5. 100% Water Soluble: Based on a Dextrose carrier, it dissolves instantly, making it perfect for both Drip Irrigation and Foliar Spray without clogging nozzles.

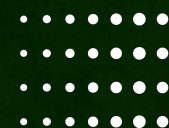
Recommended Dosage & Application

- Soil Application (Drip/Drenching): 200 gm per acre.
- Foliar Spray: 1 gm per liter of water.

Available Packaging

100 gm, 200 gm, 400 gm.

"Prolac: The 5-Billion Spore Power to Unlock Soil Zinc for Explosive Growth!"





Nitro Super



Technical Profile: Nitro Super (Nitrogen-Fixing Biofertilizer)

Nitro Super is a high-efficiency biological formulation containing specialized Nitrogen-Fixing Bacteria (such as Azotobacter or Azospirillum). It captures atmospheric nitrogen and converts it into an ammonia form that the plant can readily absorb. It acts as a continuous, natural nitrogen factory in the root zone.

Technical Composition

- Active Ingredient: Nitrogen-Fixing Bacteria.
- Formulation: Carrier-based High-Stability Powder / Water Soluble.

Key Technical Benefits

1. Natural Nitrogen Factory: Provides a consistent supply of nitrogen throughout the crop cycle, reducing dependency on chemical Urea by 20–25%.
2. Growth Promotion: Secretes phytohormones like IAA and Gibberellins, which stimulate rapid root and shoot development.
3. Seed Germination: Improves the percentage of seed germination and ensures early seedling vigor.
4. Soil Health: Restores the natural microbial balance of the soil and improves soil structure over time.
5. Cost-Effective: A sustainable and eco-friendly way to boost crop height, leaf size, and overall greenness.

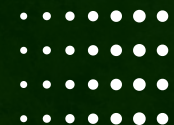
Recommended Dosage & Application

- Soil Application (Drenching/Drip): 500 gm per acre.
- Target Crops: Sugarcane, Cotton, Soybean, Maize, Wheat, Vegetables, and Fruit crops.

Available Packaging

500 gm, 1 kg.

"Nitro Super: Harness the Power of Air to Feed Your Crops Naturally!"





Technical Profile: Mycropro-WS (Water Soluble VAM Biofertilizer)

Mycropro-WS is a high-potency, water-soluble Vesicular Arbuscular Mycorrhiza (VAM) formulation. It establishes a symbiotic relationship with plant roots, creating a massive underground fungal network that enhances nutrient uptake and water absorption far beyond the reach of normal roots.

Technical Composition

- Active Ingredient: Endomycorrhizal Spores (VAM).
- Spore Count: Min. 10 Viable Spores per gram of finished product.
- Inoculum Potential: 1200 IP per gram (by MPN method with 10-fold dilution).
- pH Range: 5.0 – 7.0 (Highly stable).

Key Technical Benefits

1. Massive Root Expansion: Extends the effective root surface area by up to 100 times, allowing the plant to access "locked" nutrients like Phosphorus and Zinc.
2. High Inoculum Potential: With 1200 IP/gm, it ensures rapid colonization of the root zone for immediate growth response.
3. Drought & Salinity Resistance: Helps the plant extract moisture from deep soil layers, protecting the crop during water scarcity.
4. Pathogen Protection: Creates a biological shield around roots, reducing the incidence of soil-borne diseases like root rot and wilt.
5. 100% Water Soluble: Specifically designed for Drip Irrigation and Drenching without any residue or clogging issues.

Recommended Dosage & Application

- Dose: 100 gm to 200 gm per acre.
- Method: Apply through Drip Irrigation, Drenching, or Surface Irrigation.
- Application Schedule:
 - 1st Application: 10–15 days after transplanting or sowing.
 - 2nd Application: 30–35 days after transplanting or sowing.

Available Packaging

50 gm, 100 gm, 200 gm, 400 gm.

"Mycropro-WS: The Underground Power Network for Massive Roots and Superior Yield!"

Mycropro-WS





Technical Profile: Mycropro-GR (Granular VAM Biofertilizer)

Mycropro-GR is a high-potency, granular Vesicular Arbuscular Mycorrhiza (VAM) formulation designed for soil application. It establishes a symbiotic connection with the plant's root system, creating a biological network that explores the soil far beyond the reach of the roots themselves.

Technical Composition

- Active Ingredient: Endomycorrhizal Spores (VAM).
- Spore Count: Min. 10 Viable Spores per gram of finished product.
- Inoculum Potential: 1200 IP per gram (measured by MPN method with 10-fold dilution).
- pH Range: 5.0 – 7.0.
- Formulation: Granular (Ideal for broadcasting).

Key Technical Benefits

1. **Nutrient Scavenger:** Effectively absorbs "locked" Phosphorus and micronutrients like Zinc and Copper from the soil.
2. **Extended Root Zone:** Increases the effective root surface area by 10 to 50 times, ensuring the plant gets nutrition from deep soil layers.
3. **High Inoculum Potential:** The 1200 IP/gm ensures rapid colonization, meaning the fungi start working almost immediately after application.
4. **Drought Resilience:** Acts as a water reservoir by extracting deep-seated moisture, helping crops survive during irrigation intervals.
5. **Soil Aggregation:** Improves soil structure and porosity, making the land more fertile for future crops.

Recommended Dosage & Application

- Dose: 2 kg to 4 kg per acre (as per crop requirement).
- Method: Mix with organic fertilizers, farmyard manure (FYM), or compost and apply through broadcasting.
- Target Crops: Sugarcane, Cotton, Soybean, Pomegranate, Banana, Grapes, and all field crops.

Available Packaging

1 kg, 2 kg, 4 kg.

"Mycropro-GR: The Granular Foundation for Massive Roots and Sustainable Yield!"

Mycropro-GR





Lamino Plus



Lamino Plus is a premium-grade foliar spray designed to deliver balanced multi-micronutrient nutrition directly to crops. With a synergistic blend of Zinc, Iron, Manganese, Copper, Boron, and Molybdenum in highly soluble form, Lamino Plus ensures instant deficiency correction and boosts crop performance at every stage of growth. By enhancing flowering, fruit set, photosynthetic efficiency, and natural immunity, it empowers farmers to achieve superior growth and bumper yields. Specially formulated for vegetables, fruits, and field crops, Lamino Plus is the trusted solution for quality harvests and sustainable farming.

Technical Profile: Lamino Plus (Advanced Multi-Micronutrient Foliar Spray)

Lamino Plus is a high-grade, balanced multi-micronutrient mixture specifically formulated for foliar application. It contains essential trace elements in a highly soluble form to correct nutrient deficiencies quickly and enhance the physiological performance of the crop.

Technical Composition

It contains a synergistic blend of six essential micronutrients required for critical metabolic functions:

- Zinc (Zn): Vital for auxin (growth hormone) production and stem elongation.
- Iron (Fe): Essential for chlorophyll synthesis and photosynthesis.
- Manganese (Mn): Acts as an enzyme activator for nitrogen metabolism.
- Copper (Cu): Important for cell wall strength and protein synthesis.
- Boron (B): Crucial for pollen tube growth, fruit setting, and sugar transport.
- Molybdenum (Mo): Required for nitrogen fixation and nitrate reduction.

Key Technical Benefits

1. Instant Deficiency Correction: As a foliar spray, it bypasses soil-locking issues and provides immediate nutrition to the leaves, correcting "Hidden Hunger" instantly.
2. Enhanced Flowering & Fruit Set: The presence of Boron and Zinc ensures better pollination, reduced flower drop, and uniform fruit development.
3. Photosynthetic Efficiency: High Iron and Manganese content increase chlorophyll density, making the crop deep green and more productive.
4. Boosted Immunity: Strengthens the plant's natural defense mechanism against pests, diseases, and environmental fluctuations (Heat/Cold).
5. Quality Yield: Improves the nutritional value, weight, luster, and shelf-life of the final produce.

Recommended Dosage & Application

- Dosage: 1gm per liter of water.
- Application Timing:
 - 1st Spray: During the active vegetative growth stage.
 - 2nd Spray: At the pre-flowering stage (to boost flower count).
 - 3rd Spray: During the fruit/grain development stage (for weight and luster).

Ideal Crops

- Vegetables: Tomato, Chili, Onion, Potato, Ginger, Garlic.
- Fruits: Pomegranate, Grapes, Citrus, Mango, Banana.
- Field Crops: Cotton, Soybean, Sugarcane, Pulses, and Cereals.

Available Packaging

100gm, 250gm, 500gm, 1kg.

"Lamino Plus: The Essential Spark for Superior Growth and Bumper Yields!"



Microlac



Microlac is a next-generation, liquid multi-micronutrient fertilizer designed to energize crops with balanced nutrition. Enriched with six essential micronutrients in a partially chelated form, Microlac ensures rapid absorption and efficient translocation within plants. Fortified with organic solvents and growth-promoting substances, it not only corrects hidden deficiencies but also stimulates flowering, fruit setting, and overall crop vitality. Specially formulated to comply with State Government grade standards, Microlac is the trusted solution for farmers seeking higher yields and healthier soils.

Technical Profile: Microlac (Multi-Micronutrient Liquid Fertilizer)

Microlac is a high-performance, liquid-based multi-micronutrient formulation. It contains essential minerals in a partially chelated form, ensuring rapid absorption and translocation within the plant. Fortified with organic solvents and growth-promoting substances, it corrects nutrient deficiencies and boosts overall crop vigor.

Technical Composition

- Essential Micronutrients: Iron (Fe), Manganese (Mn), Zinc (Zn), Copper (Cu), Boron (B), and Molybdenum (Mo).
- Formulation: Partially Chelated Liquid (for high bioavailability).
- Additives: Organic solvents and Plant Growth Promoting (PGP) substances.
- Compliance: Specially formulated as per various State Government (Grade) notifications.

Key Technical Benefits

1. **Balanced Nutrition:** Provides all six essential micronutrients in the correct ratio, preventing "hidden hunger" (deficiency) in crops.
2. **Advanced Chelation:** The partial chelation ensures that metallic ions (Zn, Fe, Mn, Cu) remain stable and are easily absorbed by leaves and roots without being "locked" in the soil.
3. **Enzymatic Activation:** Activates various plant enzymes responsible for photosynthesis, protein synthesis, and hormone regulation.
4. **Growth Promotion:** The added PGP substances stimulate cell division, leading to better flowering and fruit setting.
5. **State Grade Compliant:** Formulated to meet specific soil and crop requirements as per regional agricultural norms.

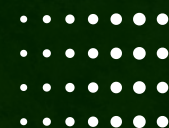
Recommended Dosage & Application

- Foliar Spray: 2.5 ml to 4 ml per liter of water. (Apply during vegetative growth and pre-flowering).

Available Packaging

100ml, 250ml, 500ml, 1liter, 5 liter.

"Microlac: The Essential Spark for Crop Vitality and High Yield!"





Lacprofert-DF



Lacprofert DF is a state-grade, water-soluble micronutrient formulation designed to strengthen crops from the root up. With a precise blend of six essential micronutrients—Zinc, Iron, Manganese, Copper, Boron, and Molybdenum—manufactured exactly as per State Government Grade standards, Lacprofert DF ensures long-term soil enrichment and systemic deficiency correction. Its dry flowable crystalline form dissolves completely in water, making it ideal for fertigation and soil application. By enhancing enzyme activity, balancing root and shoot growth, and improving overall crop vigor, Lacprofert DF provides farmers with a cost-effective solution for healthier soils and higher yields.

Technical Profile: Lacprofert DF (State-Specific Micronutrient Mix)

Lacprofert DF is a high-performance, water-soluble micronutrient formulation. It provides a balanced blend of all six essential trace elements (Fe, Mn, Zn, Cu, B, Mo) in the exact proportions specified by State Government Grades. It is designed for soil application (Fertigation) to address systemic nutrient deficiencies.

Technical Composition

- Essential Micronutrients: Zinc (Zn), Iron (Fe), Manganese (Mn), Copper (Cu) & Boron (B).
- Compliance: Specifically manufactured as per the State Government Grade notifications (e.g., Maharashtra Grade 1 for soil application).
- Formulation: Dry Flowable (DF) / Crystalline, 100% water-soluble.

Key Technical Benefits

1. **State-Grade Precision:** Formulated based on regional soil analysis reports to provide exactly what the local crops need.
2. **Systemic Correction:** When applied to the soil, it corrects long-term micronutrient deficiencies that foliar sprays might miss.
3. **Enhanced Enzyme Activity:** Acts as a catalyst for plant enzymes, improving nitrogen metabolism and protein synthesis.
4. **Root & Shoot Balance:** Zinc and Iron promote healthy root architecture and lush green canopy development.
5. **Cost-Effective:** A single application provides a complete spectrum of micronutrients, reducing the need for multiple individual sprays.

Recommended Dosage & Application

- Soil Application / Drip: 1 to 2 ltr per acre (depending on the crop and soil test report).
- Timing: Apply during the basal dose or the first fertigation (15–30 days after sowing/planting).

Available Packaging

1liter, 2.5 liter, 5 liter.

"Lacprofert DF: The Power of Balanced Micronutrients for a Stronger Foundation!"



Kundal



Kundal is a premium bio-available silicon fertilizer formulated as Stabilized Ortho Silicic Acid (OSA) – the only form of silicon that plants can directly absorb. Unlike traditional silica, Kundal strengthens plant cell walls, making stems sturdier and leaves more erect for efficient photosynthesis. It acts as a biological shield against sucking pests and fungal infections while enhancing tolerance to heat, drought, and other environmental stresses. By improving nutrient uptake and reducing crop lodging in cereals, sugarcane, and paddy, Kundal ensures stronger stems, healthier crops, and superior yields.

Technical Profile: Kundal (Stabilized Ortho Silicic Acid 2.0%)

Kundal is a premium bio-available form of Silicon, formulated as Stabilized Ortho Silicic Acid (OSA). Unlike traditional silica, OSA is the only form of silicon that plants can directly absorb. It acts as a structural strengthener and a biological shield against pests, diseases, and environmental stress.

Technical Composition

- Active Ingredient: Stabilized Ortho Silicic Acid (OSA).
- Concentration: 2.0%.
- Formulation: Liquid (High bioavailability).

Key Technical Benefits

1. **Structural Strength:** Deposits a thick layer of silica in the plant cell walls, making stems stronger and leaves more erect for better photosynthesis.
2. **Biotic Stress Shield:** Creates a mechanical barrier that makes it difficult for sucking pests (Thrips, Mites) and fungal hyphae (Powdery Mildew) to penetrate the plant.
3. **Abiotic Stress Tolerance:** Reduces transpiration (water loss) during high temperatures, helping the crop survive heatwaves and drought.
4. **Nutrient Synergist:** Improves the uptake of Phosphorus and reduces the toxicity of heavy metals like Aluminium and Manganese in the soil.
5. **Reduced Lodging:** Strengthens the base of crops like Paddy, Wheat, and Sugarcane, preventing them from falling (lodging) due to wind or heavy rain.

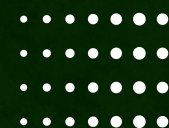
Recommended Dosage & Application

- Foliar Spray: 1 ml per liter of water. (Apply during vegetative growth and fruit development).
- Drip / Drenching: 500 ml per acre.

Available Packaging

100ml, 250ml, 500ml, 1 liter.

"Kundal: The Biological Shield for Stronger Stems and Superior Yield!"





Calmet



Calmet is a premium concentrated liquid calcium formulation designed to strengthen plant cell walls and improve fruit quality. With 11% highly available calcium and an alkaline pH, Calmet ensures rapid absorption through both roots and leaves. It prevents physiological disorders such as Blossom End Rot in tomatoes and chilies, and Tip Burn in leafy vegetables. By enhancing firmness, shelf life, and resilience during transportation, Calmet provides farmers with healthier harvests and superior market value.

Technical Profile: Calmet (Concentrated Liquid Calcium 11%)

Calmet is a high-performance liquid formulation designed to provide plants with a highly available source of Calcium. With its unique alkaline pH and concentrated form, it ensures rapid absorption through both roots and leaves to strengthen plant structure and improve fruit quality.

Technical Composition

- Active Ingredient: Concentrated Liquid Calcium.
- Calcium Content (as Ca): Min. 11.0% by weight.
- pH: 9.5 ± 1.0 (Alkaline formulation).

Key Technical Benefits

1. **Cell Wall Strength:** Calcium is essential for the stability of plant cell walls. Calmet prevents fruit softening and structural collapse.
2. **Prevents Disorders:** Highly effective in controlling physiological disorders like Blossom End Rot (in tomatoes/chilies) and Tip Burn (in leafy vegetables).
3. **Improved Shelf Life:** Increases the firmness and durability of fruits, making them more resilient during long-distance transportation and storage.
4. **Root & Shoot Growth:** Promotes the development of healthy root tips and terminal buds, ensuring a strong foundation for the plant.
5. **Rapid Absorption:** The liquid concentrated form ensures faster uptake compared to traditional granular calcium sources.

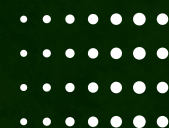
Recommended Dosage & Application

- Foliar Spray : 2 ml to 3 ml per liter of water.
- Drip / Fertigation : 1 liter per acre.

Available Packaging

100ml, 250ml, 500ml, 1liter.

"Calmet: The Liquid Strength for Firm Fruits and Healthy Harvests!"





Bozinc



Bozinc is a specialized liquid micronutrient formulation that combines the synergistic power of Zinc and Boron in a partially chelated form for maximum bioavailability. Zinc drives vegetative growth and hormone production, while Boron ensures successful pollination, fruit setting, and sugar translocation. Fortified with organic solvents and plant growth-promoting substances, Bozinc corrects hidden deficiencies instantly, prevents flower drop, and enhances the sweetness, size, and luster of the final produce. Designed for foliar spray and fertigation, Bozinc is the perfect blend for stronger growth and bumper yields.

Technical Profile: Bozinc (Zinc & Boron Synergetic Complex)

Bozinc is a high-performance, liquid-based micronutrient formulation featuring a balanced combination of Zinc (Zn) and Boron (B). Formulated in a partially chelated form, it ensures maximum bioavailability. It is fortified with organic solvents and plant growth-promoting (PGP) substances to optimize reproductive health and structural development.

Technical Composition

- Micronutrients: Balanced Zinc (Zn) and Boron (B).
- Formulation: Partially Chelated Liquid.
- Additives: Organic Solvents and PGP (Plant Growth Promoting) substances.

Key Technical Benefits

1. Synergistic Action: Zinc drives vegetative growth and hormone production, while Boron ensures successful pollination and fruit setting. Together, they prevent flower drop.
2. Reproductive Efficiency: Improves pollen germination and pollen tube growth, leading to higher fruit/grain counts.
3. Partial Chelation: Prevents the nutrients from getting "locked" in the soil or reacting with other chemicals, allowing rapid absorption by leaves and roots.
4. Hormonal Balance: PGP substances stimulate the natural synthesis of Auxins, leading to better terminal growth and internodal distance.
5. Quality & Luster: Enhances sugar translocation, improving the Brix (sweetness), size, and shine (luster) of the produce.

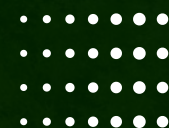
Recommended Dosage & Application

- Foliar Spray : 2 ml to 3 ml per liter of water.

Available Packaging

100ml, 250ml, 500ml, 1liter, 5liter.

"Bozinc: The Perfect Blend for Stronger Growth and Bumper Setting!"





Lacbor



Lacbor is a premium, ultra-pure boron fertilizer formulated as Di-Sodium Octa Borate Tetra Hydrate, delivering 20% highly soluble Boron. With instant solubility and maximum bioavailability, Lacbor plays a vital role in reproductive growth, pollen germination, and sugar translocation. It strengthens cell walls in synergy with Calcium, preventing fruit cracking in crops like pomegranate, grapes, and citrus. Safe for export-quality produce due to its ultra-low lead content, Lacbor ensures better pollination, uniform fruit set, enhanced sweetness, and crack-free harvests.

Technical Profile: Lacbor (High-Solubility Boron 20%)

Lacbor is a premium, 100% water-soluble micronutrient fertilizer containing 20% Boron. Formulated as Di-Sodium Octa Borate Tetra Hydrate, it is the most efficient form of Boron for rapid plant absorption, essential for reproductive growth and structural integrity.

Technical Composition

- Active Ingredient: Di-Sodium Octa Borate Tetra Hydrate ($\text{Na}_2\text{B}_8\text{O}_{13}\cdot 4\text{H}_2\text{O}$).
- Boron (as B): Min. 20.0% (w/w).
- Water Insoluble Matter: Max. 1.0% (Ensures no nozzle clogging).
- Lead (as Pb): Max. 0.003% (Ultra-pure, safe for export crops).

Key Technical Benefits

1. Pollen Germination: Vital for pollen tube growth and successful pollination, directly increasing fruit and seed setting.
2. Sugar Translocation: Acts as a vehicle to transport sugars and starches from leaves to the fruits, tubers, and roots, improving taste and weight.
3. Cell Wall Strength: Works with Calcium to build strong cell walls, preventing fruit cracking (especially in Pomegranate, Grapes, and Citrus).
4. Hormonal Balance: Regulates plant hormones like Auxins, ensuring uniform growth and reducing terminal bud curling.
5. Instant Solubility: Dissolves instantly in water, making it ideal for both high-efficiency foliar sprays and drip irrigation.

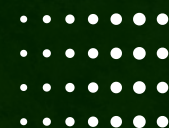
Recommended Dosage & Application

- Foliar Spray: 1gm per liter of water. (Apply during pre-flowering and fruit-set stages).
- Drip / Fertigation: 500 grams to 1 kg per acre.

Available Packaging

100gm, 250gm, 500gm, 1 kg, 5kg.

"Lacbor: The Perfect Link for Better Pollination and Crack-Free Fruits!"





Eminent-Zn is a premium chelated zinc fertilizer formulated with EDTA technology to ensure maximum stability and bioavailability. With 12% Zinc in fully water-soluble crystalline form, Eminent-Zn remains available even in alkaline soils, preventing nutrient lock-up. It plays a vital role in auxin hormone synthesis, chlorophyll formation, and enzyme activation, ensuring rapid recovery from zinc deficiency symptoms such as little leaf, rosetting, and interveinal chlorosis. Safe for export-quality crops due to its ultra-low lead content, Eminent-Zn delivers greener leaves, stronger growth, and healthier harvests.

Technical Profile: Eminent-Zn (Chelated Zinc EDTA 12%)

Eminent-Zn is a high-purity, 100% water-soluble micronutrient fertilizer. It contains Zinc in EDTA chelated form, which ensures that the Zinc remains stable and fully available to the plant even in alkaline soils. It is critical for growth hormone production and enzyme activation.

Technical Composition

- Appearance: Free-flowing crystalline or powder.
- Zinc Content (as Zn-EDTA): Min. 12.0% by weight.
- Lead (as Pb): Max. 0.003% (High purity for export-quality crops).
- pH (5% solution): 6.0 – 6.5.

Key Technical Benefits

1. **Maximum Bioavailability:** The EDTA chelation protects Zinc from being "locked" in the soil, allowing the plant to absorb it efficiently through both roots and leaves.
2. **Hormone Catalyst:** Essential for the synthesis of Auxins, the plant growth hormones responsible for stem elongation and leaf expansion.
3. **Chlorophyll Density:** Helps in the formation of chlorophyll, preventing "Interveinal Chlorosis" and keeping leaves dark green.
4. **Stress Management:** Increases the plant's ability to tolerate cold and heat stress.
5. **Rapid Recovery:** Quickly corrects Zinc deficiency (little leaf, rosetting, or yellowing of young leaves).

Recommended Dosage & Application

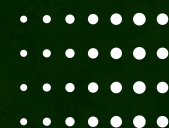
- Foliar Spray : 0.5 gm to 1 gm per liter of water.
- Drip / Fertigation : 250 gm to 500 gm per acre.

Available Packaging

100gm, 250gm, 500gm, 1kg.

"Eminent-Zn: The Chelated Power for Rapid Growth and Greener Leaves!"

Eminent-Zn





Eminent-Fe is a premium chelated iron fertilizer formulated with EDTA technology to ensure maximum stability and bioavailability. With 12% Iron in fully water-soluble crystalline form, Eminent-Fe prevents and corrects iron deficiency (chlorosis), keeping crops deep green and highly productive. It plays a vital role in chlorophyll synthesis, enzyme activation, and nitrogen fixation, ensuring rapid recovery from yellowing leaves and weak growth. Safe for sensitive and export-quality crops due to its ultra-low lead content, Eminent-Fe delivers vibrant foliage, stronger metabolism, and healthier harvests.

Technical Profile: Eminent-Fe (Chelated Iron EDTA 12%)

Eminent-Fe is a high-purity, 100% water-soluble micronutrient fertilizer containing Iron in EDTA chelated form. It is specifically designed to prevent and correct Iron deficiency (Chlorosis) in crops, ensuring vibrant green foliage and optimal energy production.

Technical Composition

- Appearance: Free-flowing crystalline or powder.
- Iron Content (as Fe-EDTA): Min. 12.0% (w/w).
- Lead (as Pb): Max. 0.003% (Ultra-pure, safe for sensitive crops).
- pH (5% solution): 5.5 – 6.5.

Key Technical Benefits

1. Chlorophyll Synthesis: Iron is a key catalyst in chlorophyll production. It keeps the plant deep green and maximizes photosynthesis.
2. EDTA Stability: The chelated form prevents Iron from reacting with other soil minerals, making it highly available even in calcareous (lime-rich) soils.
3. Enzyme Activation: Plays a vital role in plant metabolism, respiration, and nitrogen fixation.
4. Rapid Greening: Quickly treats "Yellowing of Leaves" (where veins remain green but the rest of the leaf turns yellow).
5. High Purity: Negligible lead content ensures it is safe for high-value export fruits and vegetables.

Recommended Dosage & Application

- Foliar Spray : 0.5 gm to 1 gm per liter of water.
- Drip / Fertigation : 250 gm to 500 gm per acre.

Available Packaging

100gm, 250gm, 500gm, 1kg.

"Eminent-Fe: The Ultimate Green Power for Healthy and Vibrant Crops!"

Eminent-Fe





Eminent-CA



Eminent-CA is a premium chelated calcium fertilizer formulated with EDTA technology to ensure maximum stability and bioavailability. Unlike regular calcium sources, Eminent-CA remains free from soil interactions with phosphates and sulfates, making it rapidly absorbable by both roots and leaves. It strengthens plant cell walls, prevents physiological disorders such as Blossom End Rot in tomatoes and Bitter Pit in apples, and enhances fruit firmness and shelf life. With its 100% water-soluble crystalline form, Eminent-CA provides farmers with a strong foundation for healthier crops and superior harvests.

Technical Profile: Eminent-CA (Chelated Calcium EDTA 9%)

Eminent-CA is a premium, 100% water-soluble micronutrient fertilizer. It contains Calcium in EDTA chelated form, which ensures that the Calcium remains stable and is not "locked" by phosphates or sulfates in the soil or spray tank. It is essential for cell wall strength and overall plant structure.

Technical Composition

- Active Ingredient: Calcium EDTA (As per FCO norms).
- Calcium Content (as Ca-EDTA): Min. 9.0% by weight.
- Formulation: Free-flowing crystalline or powder.
- Solubility: 100% Water Soluble.

Key Technical Benefits

1. **Structural Integrity:** Calcium is the "glue" that holds cell walls together. Eminent-CA ensures strong stems and prevents fruit collapsing.
2. **Prevents Physiological Disorders:** Highly effective in preventing Blossom End Rot in tomatoes/peppers and Bitter Pit in apples.
3. **Advanced Chelation:** Unlike regular Calcium, the EDTA form is compatible with most fertilizers and is absorbed rapidly by leaves and roots.
4. **Fruit Quality:** Improves fruit firmness, reducing storage losses and increasing the "Shelf Life" for long-distance transport.
5. **Root Tip Development:** Vital for the growth of new root tips and shoot membranes, ensuring a healthy plant foundation.

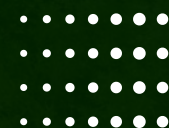
Recommended Dosage & Application

- Foliar Spray : 0.5 gm to 1 gm per liter of water.
- Drip / Fertigation : 500 gm to 1 kg per acre.

Available Packaging

100gm, 250gm, 500gm

"Eminent-CA: The Strong Foundation for Firm Fruits and Healthy Crops!"





Copking



Copking – Technical Profile

Product Type: Copper-based Micronutrient & Fungicide

Function: Supplies essential copper nutrition, controls fungal diseases, and improves plant metabolism.

Technical Composition

- Copper Sulphate (24%) – Source of copper micronutrient with strong fungicidal properties.
- Physical State: Crystalline powder, water-soluble.

Key Benefits

- Disease Control: Effective against fungal infections such as blight, mildew, and leaf spots.
- Micronutrient Supply: Provides copper, an essential element for enzyme activity and chlorophyll formation.
- Improved Plant Metabolism: Enhances photosynthesis and protein synthesis.
- Crop Resilience: Strengthens plant defense system against pathogens and environmental stress.
- Soil Health: Balances nutrient profile and supports microbial activity.

Recommended Dosage

- Foliar Spray: 2–3 g per liter of water (depending on crop stage and requirement).
- Soil Application: Mix with fertilizers for balanced nutrition.

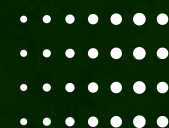
Target Crops

- Field Crops: Cotton, soybean, wheat, pulses.
- Horticulture: Grapes, pomegranate, citrus, banana, mango.
- Vegetables: Tomato, chili, onion, okra.

Available Packaging

- 100 gm, 250 gm, 500 gm, 1 kg.

"Copking – Essential Copper Nutrition and Reliable Disease Protection."





Lacprofert Eminent ZNSULF (21% Zinc Sulphate)

Lacprofert Eminent ZNSULF is a premium micronutrient fertilizer containing 21% Zinc Sulphate (ZnSO_4). It corrects zinc deficiency in crops, ensuring healthy growth, better yields, and improved grain quality.

Key Benefits

- Corrects zinc deficiency in crops
- Improves flowering, fruit setting, and seed development
- Enhances nutrient absorption (N & P)
- Suitable for cereals, pulses, fruits, vegetables, cotton, soybean

Recommended Application

- Soil Application: 5-10 kg per acre
- Apply during critical growth stages (tillering, flowering, fruit setting)

Precautions

- Avoid overuse to prevent nutrient imbalance
- Do not mix directly with phosphatic fertilizers
- Store in a cool, dry place

Available Packaging

5kg, 10kg.

"Lacprofert Eminent ZNSULF: Trusted Zinc Nutrition for Every Farmer"

**Lacprofert Eminent
ZNSULF**





Lacfert Fe Power



Lacfert Fe Power (Ferrous Sulphate 19%)

Lacfert Fe Power is a micronutrient fertilizer containing 19% Ferrous Sulphate (FeSO_4). It is specially designed to correct iron deficiency in crops, ensuring healthy growth, greener leaves, and higher yields. Iron is essential for chlorophyll synthesis and energy transfer in plants.

Key Benefits

- Corrects iron deficiency (chlorosis) in crops
- Promotes greener leaves and better photosynthesis
- Improves plant vigor and yield quality
- Suitable for cereals, pulses, fruits, vegetables, and cash crops

Recommended Application

- Soil Application: 5-10 kg per acre
- Apply during early growth stages and when chlorosis symptoms appear

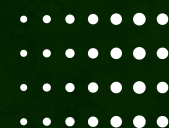
Precautions

- Avoid excessive use to prevent toxicity
- Do not mix directly with alkaline fertilizers
- Store in a dry, cool place

Available Packaging

5kg, 10kg.

"Lacfert Fe Power : Powering Crops with Essential Iron"





Lacprofert-SF



Lacprofert SF is a premium state-grade multi-micronutrient fertilizer formulated to deliver balanced nutrition for healthier crops and higher yields. With a precise blend of Zinc, Iron, Manganese, Copper, Boron, and Molybdenum, Lacprofert SF corrects hidden deficiencies and strengthens plant metabolism. Tailored according to State Government specifications, it ensures maximum nutrient efficiency in local soils. By enhancing enzyme activity, boosting root and shoot vigor, and improving flowering and fruit quality, Lacprofert SF provides farmers with the right balance of micronutrients for maximum harvest and sustainable farming.

Technical Profile: Lacprofert SF (State-Grade Multi-Micronutrient Fertilizer)

Lacprofert SF is a high-quality multi-micronutrient formulation designed to provide balanced nutrition to crops. It is specifically manufactured as per various State Government Grades (typically Grade 1 for soil application or as per specific state notifications) to correct mineral deficiencies and ensure a high-quality yield.

Technical Composition

- **Essential Nutrients:** Contains a balanced blend of Zinc (Zn), Iron (Fe), Manganese (Mn), Copper (Cu), Boron (B), and Molybdenum (Mo).
- **Compliance:** Formulated strictly according to State Department of Agriculture specifications.
- **Formulation:** Solid/Powder form for soil application.

Key Technical Benefits

1. **Balanced Nutrition:** Provides all six essential trace elements in the exact ratio required by regional soils, preventing "Hidden Hunger" in crops.
2. **Enzyme Activation:** Acts as a catalyst for plant enzymes, significantly improving photosynthesis and protein synthesis.
3. **Root & Shoot Vigor:** Zinc and Iron promote healthy root architecture and lush green foliage, leading to stronger plants.
4. **Yield & Quality:** Improves flowering, reduces fruit drop, and enhances the size, weight, and shelf-life of the produce.
5. **State-Grade Precision:** Tailored to meet local soil requirements, ensuring maximum nutrient efficiency.

Recommended Dosage & Application

- **Soil Application:** 10 kg per acre (depending on the crop and soil test).
- **Basal Dose:** Mix with regular fertilizers (Urea/DAP/NPK) during sowing or the first 30 days of the crop.

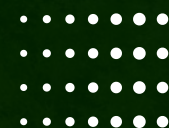
Ideal Crops

- **Commercial:** Sugarcane, Cotton, Soybean, Ginger, Turmeric.
- **Horticulture:** Pomegranate, Grapes, Banana, Citrus.
- **Vegetables:** Tomato, Onion, Chili, and all pulses.

Available Packaging

5kg, 10kg.

"Lacprofert SF: The Right Balance of Micronutrients for Maximum Harvest!"





Bricks



Technical Profile: Bricks (Seaweed Extract)

Bricks is a premium organic bio-stimulant derived from high-quality marine algae (*Sargassum tenerrimum*). It acts as a natural growth booster, enriching the soil and enhancing the physiological functions of the plant.

Technical Composition

- Sargassum tenerrimum Extract: 10% (Source of natural Auxins, Cytokinins, and Gibberellins).
- Algenic Acid: Min. 2% (A natural soil conditioner and moisture retainer).
- Organic Matter: Min. 20% (Boosts soil carbon and microbial activity).

Key Technical Benefits

- Natural Growth Hormones: Contains high levels of Auxins and Cytokinins which promote cell division, leading to more branches and a larger leaf area.
- Chelating Properties: The Algenic Acid acts as a natural chelator, helping the plant absorb micronutrients from the soil more efficiently.
- Soil Aeration: Improves soil structure by binding small soil particles into aggregates, increasing water-holding capacity and aeration.
- Abiotic Stress Tolerance: Strengthens the plant's internal defense system against environmental stresses such as drought, high temperatures, and frost.
- Microbial Booster: The 20% organic matter serves as food for beneficial soil microorganisms (like Trichoderma and PSB), keeping the root zone healthy.

Recommended Dosage

- Foliar Spray: 2-3ml per liter of water. (Apply during vegetative and flowering stages)

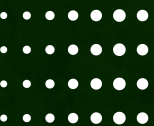
Ideal Crops

- Fruit Crops: Pomegranate, Grapes, Citrus, Banana, Mango, Watermelon.
- Vegetables: Tomato, Chili, Onion, Garlic, Ginger.
- Field Crops: Cotton, Soybean, Sugarcane, and Pulses

Available Packaging

100ml, 250ml, 500ml, 1liter.

“Bricks strengthens plants against stress, improves soil aeration, and boosts nutrient absorption – naturally and sustainably.”





Lacto-K



Technical Profile: Lacto-K (Liquid Biostimulant)

Lacto K is a liquid biostimulant formulated with 15% *Ascophyllum nodosum* seaweed extract, designed to enhance plant growth, nutrient uptake, and stress resilience. It contains a balanced profile of bioactive compounds including alginic acid, mannitol, and organic carbon to improve both plant metabolism and soil health.

Technical Composition

The chemical and biological makeup of this formulation is standard for high-quality seaweed extracts used in sustainable agriculture:

- **Ascophyllum nodosum (15%):** A nutrient-rich brown seaweed that provides natural plant hormones like auxins and cytokinins to stimulate root and shoot development.
- **Alginic Acid (Min. 1.5%):** Acts as a soil conditioner, improving soil structure, water retention, and aeration.
- **Mannitol (Min. 1%):** A sugar alcohol that enhances nutrient absorption and increases the plant's resistance to abiotic stresses like drought and heat.
- **Organic Carbon (5%):** Supports soil microbial activity and enhances overall soil fertility.
- **Physical Properties:** Typically has a pH of 4.7 ± 1.0 and a specific gravity of 1.0 to 1.1.

Agricultural Benefits

- **Nutrient Efficiency:** Helps plants absorb nutrients more effectively from the soil, reducing nutrient deficiencies.
- **Crop Quality:** Improves fruit size, color, sugar content, and overall shine and texture.
- **Stress Resistance:** Strengthens the plant's natural defense against pests, diseases, and environmental stresses like temperature fluctuations.
- **Growth Stimulation:** Accelerates seed germination and reduces post-transplant shock.

Application Guidelines

- **Foliar Spray:** Mix 2 –3 ml per litre of water.
- **Drip/Drenching Application:** Use approximately 2 litre per acre.
- **Timing:** Often applied 15–20 days after sowing, with follow-up doses every 15 days during critical growth stages like flowering and fruit development.
- **Target Crops:** Suitable for fruit plants (pomegranates, grapes, citrus, Banana, Watermelon), vegetable crops (tomato, chili, leafy greens), and flower plants.

Available Packaging

250ml, 500ml, 1liter, 5liter.

“From seed to harvest, Lacto-K ensures stronger roots, greener shoots, and brighter fruits.”



Growth Max



Technical Profile: Growth Max (Energy & Yield Booster)

Growth Max is a high-potency liquid biostimulant containing Protein Hydrolysates. It provides a ready-made source of essential Amino Acids, acting as the building blocks for plant growth, especially during periods of rapid development or environmental stress.

Technical Composition

- Protein Hydrolysates : 25% (Derived from high-quality organic sources).

Key Technical Benefits

- Accelerated Protein Synthesis: Provides 18+ essential amino acids directly to the plant, saving the energy otherwise spent on converting nitrates into proteins.
- Growth Stimulation: Promotes faster cell division and expansion, leading to taller plants with more branches and larger leaf areas.
- Enhanced Flowering & Fruit Set: Improves pollen fertility and nectar production, resulting in higher fruit setting and reduced flower drop.
- Nutrient Chelator: Acts as a natural chelating agent, helping the plant absorb micronutrients (like Zinc, Iron, and Manganese) from the soil more effectively.
- Stress Recovery: Significantly helps the crop recover from "Abiotic Stress" such as drought, high heat, or recovery after a pest attack.

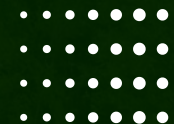
Recommended Dosage

- Foliar Spray: 2 – 3ml per liter of water. Spray uniformly on leaves during the early morning or evening for best results.

Available Packaging

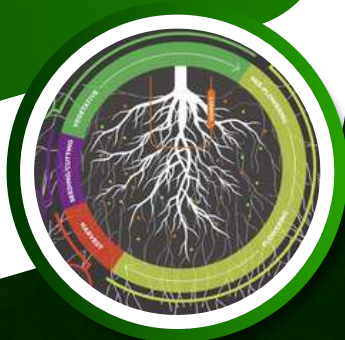
100ml, 250ml, 500ml, 1liter, 5liter.

“Growth Max : A high-potency biostimulant that transforms amino acids into energy, driving stronger roots, better flowering, and superior harvests.”





Lactogel



Lactogel is a comprehensive bio-stimulant and plant growth promoter designed to enhance crop health and productivity. Below is the technical information for your product catalogue, including its benefits and application guidelines.

Technical Profile

- Product Name: Lactogel
- Product Category: Advanced Bio-stimulant & Soil Conditioner
- Active Ingredients: A synergistic blend of Humic Acid, Fulvic Acid, Seaweed Extract, Amino Acids, and Essential Vitamins.

Key Technical Benefits

- Root Development: Stimulates the rapid growth of "white roots," increasing the surface area for water and nutrient absorption.
- Nutrient Uptake: Acts as a natural chelating agent, binding essential micronutrients and making them easily available to the plant.
- Stress Resistance: Seaweed and amino acids help crops withstand environmental stress like extreme heat, cold, and drought.
- Soil Health: Humic substances improve soil structure, aeration, and water-holding capacity.
- Yield & Quality: Enhances flowering, reduces fruit drop, and improves the size, color, and shelf life of the produce.

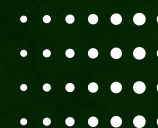
Recommended Dosage

- Foliar Spray: 2 grams per liter of water. Spray uniformly on leaves during the early morning or evening for best results.
- Drip / Drenching: 1 kg per acre. Apply directly to the root zone to enhance soil fertility and root mass.

Available Packaging

250gm, 500gm, 1kg

“Lactogel : A complete bio-stimulant that enhances nutrient uptake, boosts stress resistance, and ensures bigger, brighter, longer-lasting produce.”





Visible



Technical Profile: Visible (Liquid Biostimulant)

Visible is a high-concentration soil conditioner and growth enhancer. It combines the power of Humic and Fulvic acids to bridge the gap between soil nutrients and plant roots.

Technical Composition

- Humic Acid: Min. 10% (Derived from premium Leonardite).
- Fulvic Acid: Min. 2.5% (High-mobility organic electrolyte).

Key Technical Benefits

- Nutrient Bio-availability: Humic acid acts as a natural chelator, making "locked" minerals in the soil (like Phosphorus and Zinc) easily absorbable by roots.
- Cell Permeability: Fulvic acid increases the permeability of plant cell membranes, allowing nutrients to enter the plant system faster.
- Soil Structure: Improves soil aeration and water-holding capacity, preventing nutrient leaching in sandy soils and cracking in clay soils.
- Root Architecture: Dramatically increases "white root" mass, ensuring a stronger foundation for the plant.
- Microbial Catalyst: Acts as a carbon food source for beneficial soil microbes, accelerating their multiplication.

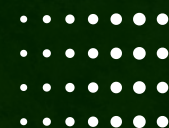
Recommended Dosage

- Foliar Spray: 2 ml to 3 ml per liter of water.
- Drip / Drenching: 2 liters per acre.

Available Packaging

100ml, 250ml, 500ml, 1liter, 5liter, 20liter.

"Visible: Making the Invisible Growth Visible – From Roots to Shoots!"





Surul



Technical Profile: Surul (Natural Pest Defense & Growth Booster)

Surul is a unique, dual-action formulation that combines the insect-repelling properties of Vasicine with the growth-promoting power of Seaweed Extract. It is an eco-friendly solution for integrated pest management and crop vitality.

Technical Composition

- Vasicine: Min. 5 ppm (A natural alkaloid derived from *Adhatoda vasica*).
- Seaweed Extract: 50% (High-concentration marine algae extract).

Key Technical Benefits

- Natural Pest Repellent: Vasicine acts as a potent antifeedant and repellent against sucking pests (thrips, mites, aphids) and certain larvae.
- Systemic Immunity: Seaweed extract (50%) boosts the plant's internal defense mechanism, making it tougher against fungal and bacterial attacks.
- Growth Acceleration: Contains natural hormones like Cytokinins and Auxins that promote faster branching and leaf development.
- Anti-Stress Formula: Helps the crop recover quickly from "pest-stress" and environmental fluctuations (heat/cold).
- Residue-Free: Being a natural botanical and marine extract, it leaves no toxic residue on the produce, making it ideal for export-quality crops.

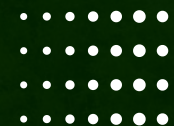
Recommended Dosage

- Foliar Spray: 1-2gm per litre of water.
- Soil Application through irrigation : Use 500gm-1kg per acre.

Available Packaging

100gm, 250gm, 500gm, 1kg

“Surul : A dual-action biostimulant that shields against pests, strengthens immunity, and accelerates growth without leaving toxic residues.”





Lamino



This product is a high-performance Biostimulant and Enzyme complex designed to accelerate protein synthesis and energy metabolism in crops.

Technical Profile: Lamino (Enzyme-Rich Protein Booster)

Lamino is a specialized formulation containing a high concentration of Protein Hydrolysates (Amino Acids) fortified with essential digestive enzymes. It acts as a ready-to-use energy source for plants, especially during critical growth stages like flowering and fruit setting.

Technical Composition

- Protein Hydrolysate: 27% (Rich source of 18+ essential Amino Acids).
- Enzyme Protease: Min. 2% (Breaks down complex proteins into usable energy).
- Enzyme Amylase: Min. 1% (Converts starches into sugars for instant plant energy).

Key Technical Benefits

- Instant Protein Synthesis: Provides ready-made amino acids, saving the plant's energy used in protein production.
- Enzymatic Action: Protease and Amylase catalyze metabolic reactions, ensuring faster nutrient conversion and transport within the plant.
- Enhanced Flowering: Stimulates the production of growth hormones, leading to profuse flowering and reduced flower drop.
- Fruit Quality: Improves the size, weight, and nutritional content (protein/sugar) of the harvest.
- Abiotic Stress Recovery: Helps the plant recover rapidly from transplant shock, drought, or extreme temperature fluctuations.

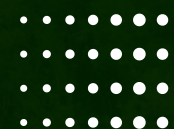
Recommended Dosage

- Foliar Spray: 1-2gm per litre of water.
- Soil Application through irrigation : Use 1kg per acre.

Available Packaging

100gm, 200gm, 400gm, 1kg

“Lamino : delivers ready-made amino acids and enzymes that fuel protein synthesis, accelerate metabolism, and ensure stronger flowering and fruit setting.”





Lacto Humic 98



Technical Profile: Lacto Humic 98 (Highly Concentrated Organic Biostimulant)

Lacto Humic 98 is a highly concentrated organic biostimulant that improves soil structure and enhances root development. It is composed of at least 51% humic acid and 10% fulvic acid, making it an effective tool for increasing nutrient uptake and crop resilience.

Technical Composition

- Humic Acid (min 51%): A large, stable molecule that improves soil aggregation, water retention, and long-term fertility.
- Fulvic Acid (min 10%): A smaller, highly soluble molecule that acts as a natural chelator to transport nutrients directly into plant tissues.

Key Features and Benefits

- Root Development: It promotes the growth of white roots and lateral branching, enabling the plant to absorb more water and nutrients.
- Soil Health: It increases the soil's cation exchange capacity (CEC), which helps retain essential minerals and prevents them from leaching away.
- Stress Resistance: It enhances the plant's ability to withstand environmental challenges.

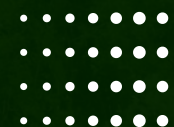
Recommended Dosage

- Foliar Spray: 1-2gm per litre of water.
- Soil Application through irrigation/drenching : Use 500gm-1kg per acre.

Available Packaging

100gm, 250gm, 500gm, 1kg

“From soil structure to stress resistance, Lacto Humic 98 ensures lasting fertility and stronger plants.”





Viable



Technical Profile: Viable (Microbial Fermented Biostimulant)

Viable is an advanced organic formulation produced through a controlled fermentation process. It is rich in bio-available carbon, enzymes, and organic acids that rejuvenate soil health and accelerate plant metabolic activities.

Technical Composition

- Formulation: Fermented Organic Extract.
- Total Organic Carbon (TOC): Min. 1.5% (Source of instant energy for soil microbes).
- Enzymes & Metabolites: Naturally occurring during the fermentation process.

Key Technical Benefits

- Soil Rejuvenation: The high-quality Organic Carbon (1.5%) acts as a primary food source for beneficial soil microbes (like PSB and Azotobacter), multiplying their population rapidly.
- Nutrient Mobility: Helps in breaking down complex minerals in the soil, making them easily "digestible" for the plant roots.
- Root Zone Vitality: Improves the Cation Exchange Capacity (CEC) of the soil, ensuring nutrients stay in the root zone and are not leached away.
- Enzymatic Support: Contains natural enzymes that catalyze plant growth processes, leading to faster flowering and fruit development.
- Humification: Assists in the natural process of forming humus in the soil, which improves soil structure and water retention.

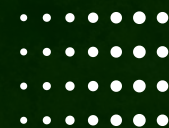
Recommended Dosage

- Soil Drenching / Fertigation: Use 1–2 Liters per Acre. This is ideal for root development and soil health, often applied through drip irrigation systems or direct pouring at the base of the plant.
- Application Timing: For best results, apply in the early morning or late evening to avoid leaf burn from the sun and to ensure maximum absorption.

Available Packaging

- Standard Packs: 1 Liter and 5 Liters.
- Bulk/Commercial Packs: 20 Liters

“Viable : Engineered for balance, designed for resilience — a bio-organic stimulant that supports plants at every stage.”





Swayam



Technical Profile: Swayam (Natural Defense & Plant Growth Regulator)

Swayam is an eco-friendly botanical formulation designed to provide plants with a natural shield against pests while supporting steady growth. It combines the medicinal properties of Vasicine with the nutritional benefits of Seaweed Extract.

Technical Composition

- Vasicine: Min. 5 ppm (A natural alkaloid derived from *Adhatoda vasica*).
- Seaweed Extract: 5% (Marine algae extract containing natural hormones).

Key Technical Benefits

- **Natural Pest Repellent:** Vasicine acts as a natural antifeedant, making the plant unpalatable to sucking pests like aphids, jassids, and thrips.
- **Systemic Resistance:** It triggers the plant's internal immune system (Induced Systemic Resistance), helping it fight off fungal and bacterial infections naturally.
- **Steady Growth Support:** The 5% seaweed extract provides essential micronutrients and plant growth regulators (PGRs) that ensure balanced vegetative development.
- **Photosynthetic Boost:** Enhances chlorophyll content in the leaves, resulting in a deeper green colour and better energy production.
- **Environmentally Safe:** Being a plant-based product, it is non-toxic, residue-free, and safe for beneficial insects like honeybees.

Recommended Dosage

- Foliar Spray: 1.5-2gm per liter of water. (Apply during early growth stages or as a preventive shield).

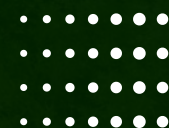
Ideal Crops

- **Vegetables:** Chili, Tomato, Onion, Brinjal, Okra.
- **Fruit Crops:** Pomegranate, Grapes, Citrus, Banana, Watermelon, Mango.
- **Field Crops:** Soybean, Cotton, Tur, and all types of Pulses.

Available Packaging

100gm, 250gm, 500gm, 1kg

"Swayam: The Natural Guardian for Healthy, Residue-Free Crops!"





Ferman



Technical Profile: Ferman (Microbial Fermented Biostimulant)

Ferman is an advanced organic formulation produced through a controlled fermentation process. It is rich in bio-available carbon, enzymes, and organic acids that rejuvenate soil health and accelerate plant metabolic activities.

Technical Composition

- Formulation: Fermented Organic Extract.
- Total Organic Carbon (TOC): Min. 1.5% (Source of instant energy for soil microbes).
- Enzymes & Metabolites: Naturally occurring during the fermentation process.

Key Technical Benefits

- Soil Rejuvenation: The high-quality Organic Carbon (1.5%) acts as a primary food source for beneficial soil microbes (like PSB and Azotobacter), multiplying their population rapidly.
- Nutrient Mobility: Helps in breaking down complex minerals in the soil, making them easily "digestible" for the plant roots.
- Root Zone Vitality: Improves the Cation Exchange Capacity (CEC) of the soil, ensuring nutrients stay in the root zone and are not leached away.
- Enzymatic Support: Contains natural enzymes that catalyze plant growth processes, leading to faster flowering and fruit development.
- Humification: Assists in the natural process of forming humus in the soil, which improves soil structure and water retention.

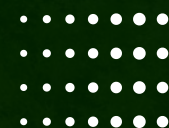
Recommended Dosage

- Foliar Spray: 2-3ml per litre of water.
- Soil Application through irrigation/drenching : Use 1-2 liter per acre.

Available Packaging

100ml, 250ml, 500ml, 1liter, 5liter.

"Ferman: The Power of Fermentation for Fertile Soil and Stronger Crops!"





Lacto-80



Technical Profile: Lacto 80 (Adjuvant & Spreader)

Lacto 80 is a high-performance Sticker, Spreader, and Penetrator. It is designed to reduce the surface tension of spray liquids, ensuring that pesticides and fertilizers cover the leaf surface uniformly and penetrate deep into the plant tissues.

Technical Composition

- Alkyl Benzene Sulphonate Sodium Salt: 16% (Active Surface Agent).
- Aminosoap with Dispersing Agent & Other Ingredients: 84% (Spreading and wetting complex).

Key Technical Benefits

- Maximum Coverage: Breaks the surface tension of water droplets, allowing them to spread in a thin, uniform film over the entire leaf surface.
- Fast Penetration: Helps systemic chemicals penetrate the waxy layers of leaves and insect cuticles more effectively.
- Rain-Fastness: Acts as a powerful sticker, ensuring that the spray stays on the leaf even during light rain or heavy dew.
- No Clogging: Contains dispersing agents that prevent the formation of lumps in the spray tank, protecting your nozzles.
- Dose Efficiency: Reduces the wastage of expensive pesticides and fertilizers by preventing "run-off" (dripping) from the leaves.

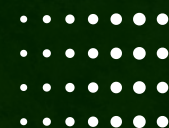
Recommended Dosage

- Dose: 0.5ml per liter of water.

Available Packaging

100ml, 250ml, 500ml, 1liter, 5liter.

"Lacto 80: Every Drop Counts – Maximum Spread, Zero Wastage!"





Technical Profile: Lacto Hum Gr (Granular Soil Conditioner)

Lacto Hum Gr is a high-performance granular soil conditioner designed for soil application. It combines the bio-stimulant properties of Humic Acid with the nutrient-retention power of Bentonite, providing a slow-release mechanism for long-term soil fertility.

Technical Composition

- Humic Acid: Min. 1.5% (Concentrated organic catalyst).
- Bentonite: Max. 98.5% (Premium volcanic clay mineral carrier).

Key Technical Benefits

- **Slow-Release Technology:** The bentonite base acts as a reservoir, releasing humic substances and moisture slowly into the root zone, ensuring the plant receives consistent nutrition.
- **Increased Cation Exchange Capacity (CEC):** Dramatically improves the soil's ability to hold onto essential nutrients (like Nitrogen and Potassium), preventing them from leaching away with water.
- **Water Retention:** Bentonite can absorb several times its weight in water, helping the crop survive during dry spells or intervals between irrigation.
- **Soil Aeration:** Breaks up hard-pan soil layers, making the soil more porous and allowing oxygen to reach the roots more effectively.
- **Root Architecture:** Even at 1.5%, the humic acid content is highly effective in stimulating lateral and white root development, ensuring a stronger plant foundation.

Recommended Dosage & Application

- **Broadcasting:** 5 kg to 10 kg per acre.
- **Basal Dose:** Mix with Chemical Fertilizers (Urea, DAP, NPK) during sowing or plantation to increase fertilizer efficiency.
- **Soil Type:** Highly recommended for sandy soils (to stop leaching) and clay soils (to improve drainage).

Ideal Crops

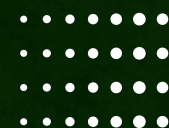
- **Field Crops:** Sugarcane, Cotton, Soybean, Maize, Wheat.
- **Horticulture:** Pomegranate, Grapes, Citrus, Banana.
- **Vegetables:** Ginger, Turmeric, Onion, Potato.

Available Packaging

1kg, 5kg, 10kg, 20kg

"Lacto Hum Gr: The Foundation of Fertile Soil and Sustained Growth!"

Lacto Hum-Gr



Compatibility Guide Chart

"Smart Nutrition, Science-Backed Protection, Sustainable Harvests!"

Fertilizer & Pesticide Compatibility Guide

Product OR Contain Name	Compatible With (YES)	Do NOT Mix With (NO)
Lactogel / Visible / Ferman	All NPKs, Micronutrients, and most Pesticides.	Strong Acidic chemicals.
NPK Grades (50-40-28, 20-20-20, 00-48-47, etc.)	Most Pesticides and other Water Soluble Fertilizers.	Calcium Nitrate and Magnesium Sulphate (In the same tank).
Calcium Nitrate / Calmet	Lacbor (Boron), Lactogel, Eminent-CA.	Sulphur, Sulphate-based fertilizers (0-0-50), and Phosphorus (12-61-0).
Magnesium Sulphate	All NPKs and most Pesticides.	Calcium Nitrate(Forms insoluble sludge).
Lacphos (Liquid 70% P2O5)	All NPKs and Micronutrients.	Calcium and Magnesium based fertilizers.
Eminent (Chelated Zn/Fe/CA)	All NPKs and most Pesticides.	Copper-basedfungicides (without a jar test).
Bio-Fertilizers (Primor, Speedphos, etc.)	Organic manures, Jaggery, Water.	Chemical Fungicides and Bactericides.
Kundal (Silicon)	Most Pesticides.	Copper and Sulphur(Test small quantity first).

Crop Nutrition & Spray Schedule

"Engineering the Future of Farming with Science-Backed Solutions!"

Crop Nutrition & Spray Schedule

Growth Stage	Days	Soil Application (Drip/Drenching)	Foliar Spray (Per Liter)	Technical Purpose
1. Rooting Stage	0-15	Mycropro-WS(200g) + Lactogel(1Kg)	Lactogel(2g)	White root development & soil conditioning.
2. Starter Stage	15-30	Nitro Super(500g) + 14-48-00 (3kg)	Growth Max(2ml) + Microlac(2ml)	Rapid vegetative growth & nutrient balance.
3. Peak Growth	30-45	Speedphos (1L) + 30-10-10 (3kg)	Lamino Plus (2g) + Eminent-Zn (1g)	Branching, greenness & chlorophyll boost.
4. Pre-Flowering	45-60	Prominent(500g) + 5-40-28 (3kg)	Bozinc(2ml) + Lamino(2ml)	Profuse budding & prevention of flower drop.
6. Development	80-100	Calcium Nitrate(5kg) + Lacphos(1L)	Eminent-CA (1g) + Lacto K(2ml)	Fruit sizing, weight & cracking prevention.
7. Maturation	100+	Potassium Schoenite (5kg) + Lacto k (2L)	Lacto 80(0.5ml)	With any spray Luster (shine), sweetness (Brix) & shelf life.

Technical Note

These notes provide scientific guidance on how to maximize the efficiency of our products.

Technical Notes for Optimal Crop Performance

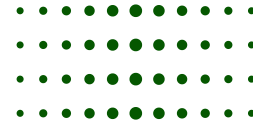
- 1. Synergistic Nutrient Absorption: Always recommend mixing Lactogel (2g/L) or Visible (3ml/L) with NPK foliar sprays. The Humic and Fulvic acids act as natural chelating agents, increasing the bioavailability and transport of nutrients into the plant cells by up to 25-30%.
- 2. The "Calcium-Boron" Golden Rule: For export-quality fruits (Grapes, Pomegranate, Tomato), apply Calmet and Lacbor together during the fruit-set stage. Boron acts as a "carrier" for Calcium; without Boron, Calcium movement is restricted, which leads to fruit cracking and blossom end rot.
- 3. Microbial Survival & Gap Management: Since products like Speedphos (PSB), Potako (KMB), and Prominent (PSF) contain live beneficial microorganisms, farmers must maintain a 4 to 5-day gap before and after applying any chemical fungicides or bactericides to ensure high microbial colonization in the rhizosphere.
- 4. Drip System Longevity: Use Lacphos (Liquid 70% P₂O₅) periodically. Its high polyphosphate content not only feeds the plant but also acts as a descaling agent, dissolving mineral scales and preventing the clogging of drip emitters, ensuring uniform water and nutrient distribution.
- 5. Maximizing Spray Efficiency: Always include Lacto 80 at a dose of 0.5 ml/L in every foliar application. It reduces the surface tension of the spray solution, ensuring 100% leaf coverage and faster penetration of systemic molecules through the waxy cuticle of the leaf.
- 6. Managing Abiotic Stress: During extreme heat or cold waves, use Lacto K (15% Ascophyllum Nodosum). It contains natural betaines and mannitol that regulate the plant's osmotic balance, preventing wilting and flower drop during climatic fluctuations.
- 7. Silicon for Natural Defense: Apply Kundal (Ortho Silicic Acid) to create a mechanical "Silica Layer" on the leaf surface. This technically hardens the plant tissue, making it physically difficult for sucking pests (Thrips/Mites) and fungal spores (Powdery Mildew) to penetrate.

Critical Safety Instructions

1. The Jar Test: Before mixing any two products for the first time, perform a "Jar Test." Mix a small amount of both products in a jar with water. If the mixture curdles, flakes, or settles into a sludge, do not mix them in the spray tank.
2. Order of Mixing: Fill the spray tank with 70% water first. Add each product one by one, ensuring the first is completely dissolved before adding the next. Never mix concentrated products directly.
3. Biological Window: Since your Bio-Fertilizers (Primor, Prominent, K-Back) contain live microbes, maintain a minimum gap of 4 to 5 days between biological and chemical (Fungicide/Bactericide) applications.



LACPRO BIOTECH



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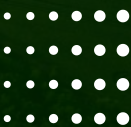
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