

HEALTHY PLANT. BETTER HARVEST. BETTER FUTURE.



Through science and innovation,
we help plants express their natural potential.
Together, we create value for growers,
quality for consumers, and a better future for the world.


NUTRA-PARK
Science for Better Harvests.



SCIENCE-BACKED



FIELD-PROVEN



GROWER-FOCUSED



SUSTAINABLE FUTURE

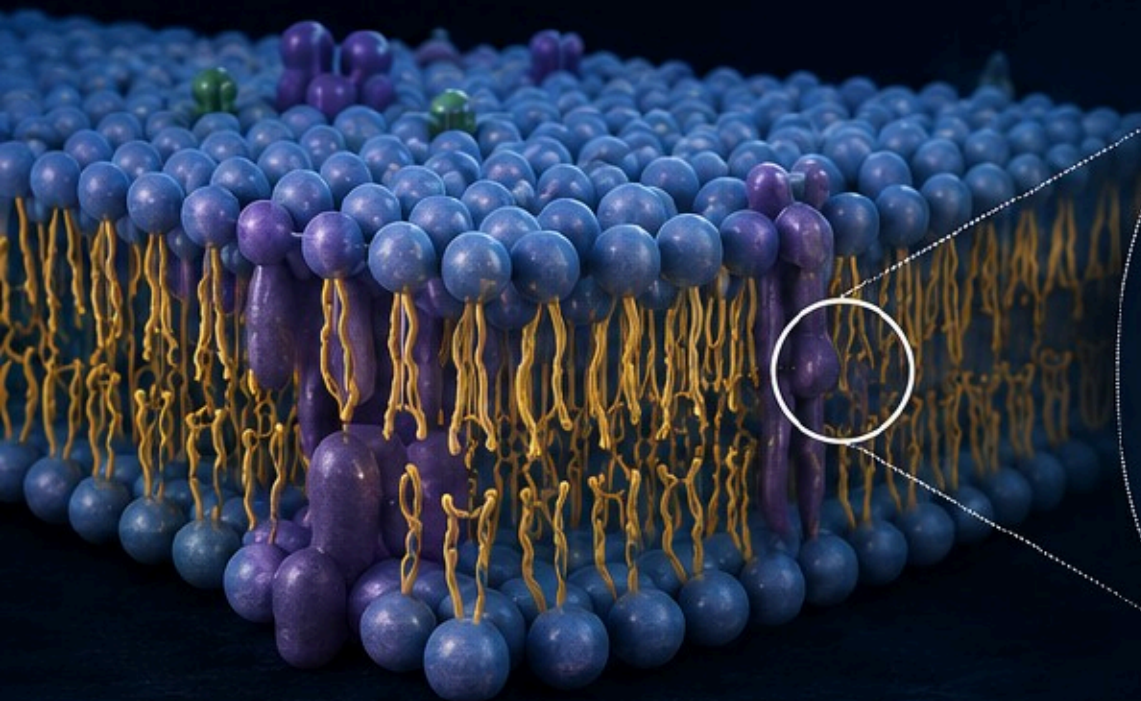


LPE THE MOLECULE AT OUR CORE

A naturally occurring phospholipid that **triggers** plant potential.

1 LIPID DOUBLE LAYER

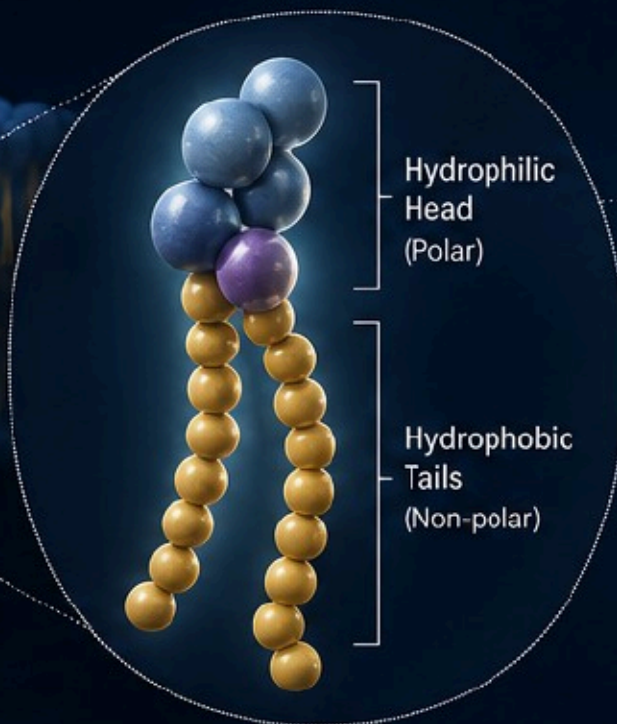
Plant Cell Membrane



Cell membranes are composed of a lipid bilayer where phospholipids play essential roles in **structure**, **signaling**, and **transport**.

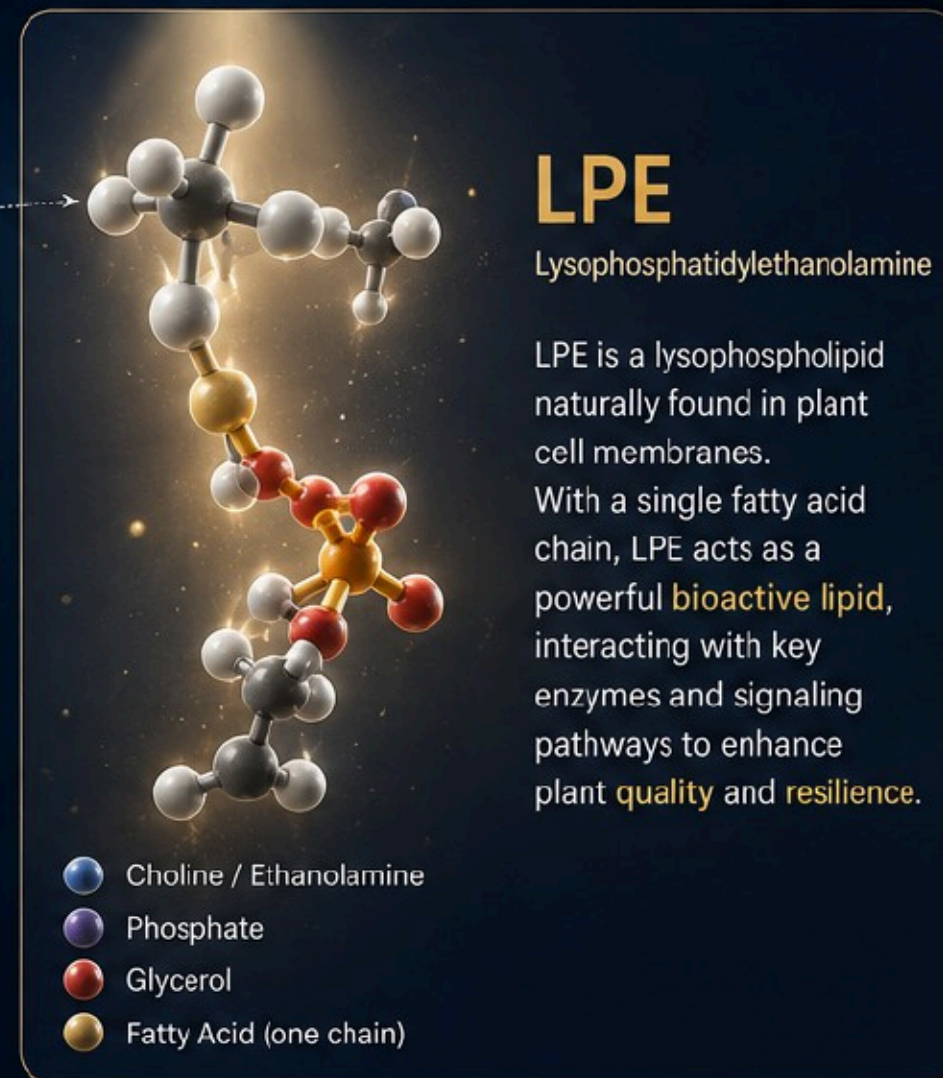
2 PHOSPHOLIPID

(Phosphatidylethanolamine)



3 LPE MOLECULE

(Lysophosphatidylethanolamine)



**A SMALL MOLECULE WITH
A BIG IMPACT ON PLANT LIFE.**



20+
COUNTRIES



500+
FIELD TRIALS



PATENTED
LPE TECHNOLOGY

Plant health / disease-resistance
related technology

BREAKING CONVENTIONAL WISDOM

LPE delivers the best of both worlds:

Better ripening with **slower senescence** for **longer quality**.

CONVENTIONAL WISDOM

Faster Ripening → Faster Senescence → Shorter Shelf Life



1 RIPENING
Ethylene increases
Fruit matures



2 SENESCENCE
Membrane & cell wall
degradation accelerates



3 QUALITY LOSS
Softening, decay,
and shriveling occur



WHAT WE SEE IN THE FIELD

- ✗ High sugar, good color but soft texture
- ✗ Rapid quality decline after harvest
- ✗ Short market window, high loss
- ✗ More stress / disease susceptibility

VS.

LPE

Better Ripening + Slower Senescence → Longer Quality



1 OPTIMAL RIPENING
Ethylene signaling
enhanced for quality



2 SLOWER SENESCENCE
Membrane & cell wall
stability is protected



3 LONGER QUALITY
Firmness, flavor, color
and shelf life extended



WHAT LPE MAKES POSSIBLE

- ✓ High sugar, excellent color and firm texture
- ✓ Slower quality decline, extended shelf life
- ✓ Longer market window, higher returns
- ✓ Better tolerance to stress and disease

“**LPE** gives you
quality that lasts.”



LPE CHANGES THE RULE.
NOT JUST RIPENING, BUT THE **OUTCOME**.

By harmonizing ripening and senescence,
LPE helps plants **express their true potential**
from the tree to the table.

20+
COUNTRIES

500+
FIELD TRIALS



PATENTED
LPE TECHNOLOGY
Plant health / disease-resistance
related technology

The Science Behind LPE

Dual Action for Premium Quality

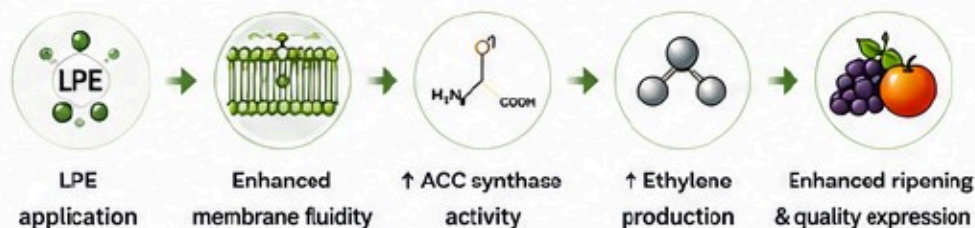
LPE works through two complementary biochemical pathways in plants, regulating **Quality Expression** while **Preserving Quality**.

Nutra-Park's **LPE** (Lysophospholipid Ethanolamine) technology works in harmony with plants to fine-tune the balance between natural ripening and quality retention, delivering consistent, **premium results**.

1 ETHYLENE-RELATED QUALITY EXPRESSION

LPE **enhances** the plant's natural ethylene response, promoting uniform ripening and desirable quality attributes.

How LPE Works



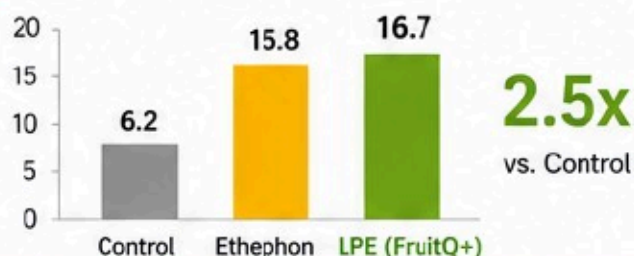
KEY QUALITY EXPRESSIONS



SCIENCE-BACKED EVIDENCE

ETHYLENE-RELATED QUALITY EXPRESSION

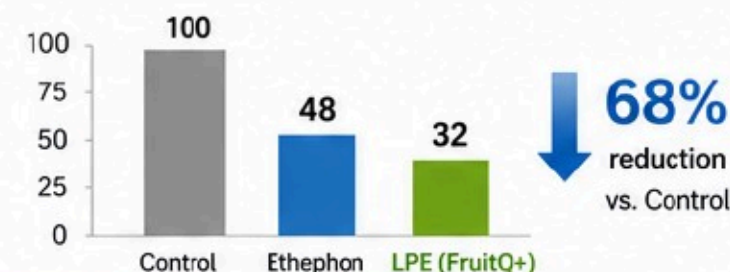
Increase in Ethylene Production ($\mu\text{L C}_2\text{H}_4 / \text{kg} / \text{h}$)



LPE **enhances** ethylene production while **reducing** tissue degradation for superior quality.

PLD/PG-RELATED QUALITY PRESERVATION

Reduction in Membrane Lipid Degradation (%)



2 PLD/PG-RELATED QUALITY PRESERVATION

LPE **protects** cellular membranes by modulating PLD/PG pathways, maintaining structure and delaying senescence.

How LPE Works



KEY QUALITY PRESERVATIONS



LPE Orchestrates the Perfect Balance: **Expressing** the Best of the Plant, **Preserving** the Best for the Market. This is the Nutra-Park LPE Advantage.

FROM SCIENCE TO SOLUTIONS

Born from **LPE** research. • Expanded through plant science.



Q+ INNOVATION
PORTFOLIO



LPE RESEARCH

The power of nature.
The precision of science.



ENHANCE QUALITY

Reveal the best in every harvest.



PROTECT POTENTIAL

Shield potential. Secure performance.



ENHANCE EXPRESSION

Bring out the color. Elevate the value.



We help plants
express their
natural potential.

NUTRA-PARK
Science for Better Harvests



Three Solutions. Three Roles. One Purpose.

Helping plants express their natural potential.





FRUITQ+

ENHANCE QUALITY



Powered by **LPE** Technology

Developed from LPE research to help crops express their best quality and achieve more valuable harvests.



COLOR

Brighter and
more vibrant



SWEETNESS

Higher Brix.
Better taste



FIRMNESS

Stronger texture.
Less softening



FRESHNESS

Longer shelf life.
Less loss



BETTER QUALITY. BETTER VALUE.

Better Harvests.



LPE RESEARCH → ADVANCED SOLUTIONS → BETTER HARVESTS

WE HELP PLANTS EXPRESS THEIR NATURAL POTENTIAL.

FRUITQ+

FIELD EVIDENCE

Real results. Real crops. Real impact.



SEEING IS
BELIEVING.

Better Quality.
Better Harvests.



CHERRY Türkiye, 2024

Bigger. Darker. More Valuable.

CONTROL



FRUITQ+



WEIGHT
+25%
vs. Control



COLOR (a*)
+40%
vs. Control

1,000x dilution, 1 L/ha
2 weeks before harvest

APPLE Türkiye, 2024

Better Size. Better Color.

CONTROL



FRUITQ+



WEIGHT
+16%
vs. Control



COLOR (a*)
+9%
vs. Control

1,000x dilution, 1 L/ha • 2 weeks before harvest

CALIFORNIA GRAPE USA, 2023

Higher Yield. Better Returns.

CONTROL



FRUITQ+



YIELD
+39%
vs. Control

1,000x dilution, 1 L/ha
2 weeks before harvest

Thompson Seedless • 1 application



BETTER COLOR
More vibrant



HIGHER SWEETNESS
Better Brix



BETTER FIRMNESS
Stronger texture



LONGER SHELF LIFE
Less loss, more value



Powered by LPE Technology.
Proven by Farmers. Trusted by Nature.



PROTECT POTENTIAL

Stronger plants.
Better performance.



ProtectQ+

PROTECT POTENTIAL



A phospholipid-based biostimulant that strengthens plant resilience against sunburn, heat stress and cracking, helping crops maintain quality and maximize value.



SUNBURN PROTECTION

Reduces sunburn damage and helps maintain fruit quality.



HEAT STRESS PROTECTION

Helps plants cope with heat and drought conditions.



CRACKING PROTECTION

Improves skin elasticity and reduces cracking.



RESILIENCE BOOST

Strengthens plant resilience for more stable performance.



NATURAL
PHOSPHOLIPID
POWER



SCIENTIFICALLY
PROVEN
EFFICACY



FORMULATED FOR
FIELD-PROVEN
RESULTS



TESTED IN DIVERSE
CONDITIONS
WORLDWIDE



NUTRA-PARK
Science for Better Harvests

WE HELP PLANTS
REALIZE THEIR
NATURAL POTENTIAL.



PROTECT
POTENTIAL



ENHANCE
QUALITY



EXPRESS
EXCELLENCE



CREATE VALUE
TOGETHER

PROTECTQ+ FIELD EVIDENCE

Real Results. Real Crops. Real Impact.



ProtectQ+

Helps crops withstand stress, reduce damage and deliver more marketable fruit.



APPLICATION

1,000x dilution, 1 L/ha
2 weeks before harvest
2 applications

APPLE – CRACKING + SUNBURN

Türkiye, Amasya
0900 Ziraat, 2011

CONTROL



PROTECTQ+



CRACKING
+ SUNBURN

17.2%

CONTROL



7.1%

PROTECTQ+

CONTROL



PROTECTQ+



HIGH-QUALITY
FRUIT

23.8%

CONTROL



63.5%

PROTECTQ+

GRAPE – CRACKING

California, USA
Crimson, 2005

CONTROL



GRAPE
CRACKING

28.5%

CONTROL



12.3%

PROTECTQ+

PROTECTQ+



1,000x dilution, 1 L/ha | 2 weeks before harvest
2 applications



PROTECTS FRUIT

Helps reduce sunburn, heat damage and cracking caused by stress.



MAINTAINS QUALITY

Supports more stable skin and better appearance.



IMPROVES RETURNS

More high-quality fruit means higher value at the market.



SCIENCE-BACKED

Proven in field trials across different crops and conditions.



Scan to see more trial data and results

LESS DAMAGE. MORE MARKETABLE FRUIT.



SUNBURN PROTECTION



HEAT STRESS PROTECTION



CRACKING PROTECTION



RESILIENCE BOOST

NUTRA-PARK
Science for Better Harvests





**ENHANCE
EXPRESSION**

Help crops express their natural color, sweetness and market value.



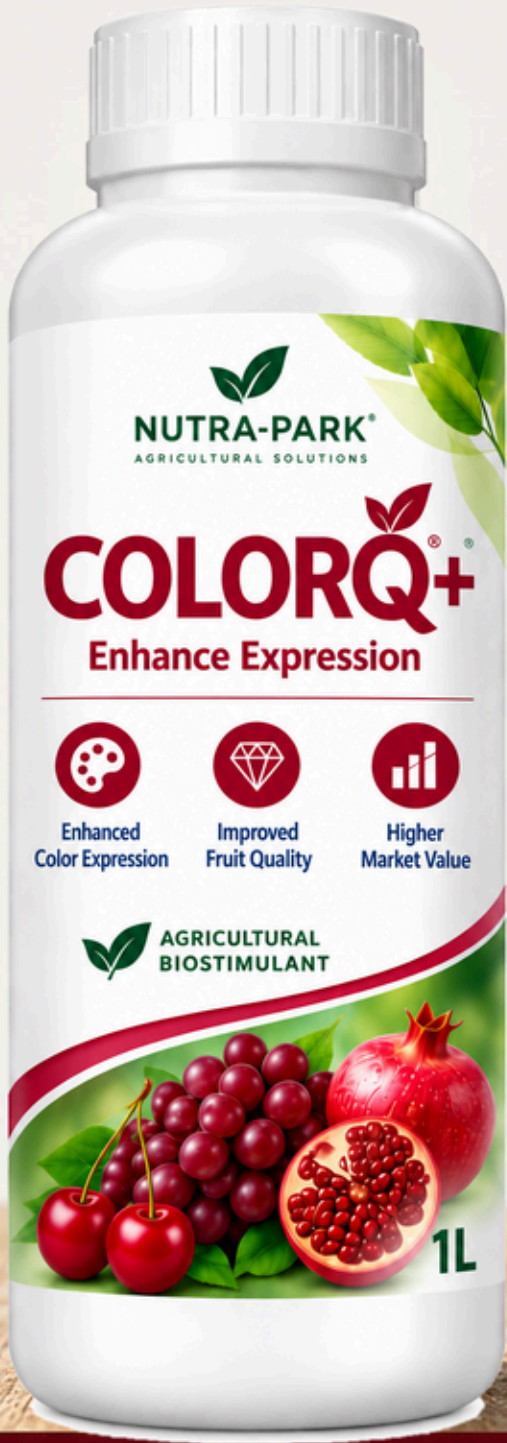
RICHER COLOR
Supports natural color development and uniformity.



BETTER QUALITY
Improves sweetness, flavor and overall fruit quality.



HIGHER VALUE
Better appearance and consistency lead to higher market value.



ColorQ+

ENHANCE EXPRESSION



Amino Acid-based Biostimulant

Specially formulated for the ripening stage to enhance natural color, increase sweetness, and improve fruit quality. Helps crops express their full potential.



COLOR ENHANCEMENT

Promotes anthocyanin synthesis and natural color expression.



RIPENING SUPPORT

Optimized amino acids support ripening and uniform maturity.



QUALITY IMPROVEMENT

Improves sugar accumulation, flavor and firmness.



MARKET ADVANTAGE

Better quality and appearance mean higher returns.

**EXPRESS
NATURE'S
BEST**



OPTIMIZED AMINO ACID COMPLEX
18 amino acids in a balanced ratio to maximize color and quality.



KEY MINERALS
K, Zn, Mn, B for better transport and sugar accumulation.



RIPENING-STAGE NUTRITION
Designed for the critical period before harvest.



RECOMMENDED USE
1,000x dilution (1 L/ha)
1-2 applications
2 weeks before harvest



NUTRA PARK
Science for Better Harvests

WE HELP PLANTS EXPRESS
THEIR **NATURAL POTENTIAL.**



PROTECT
POTENTIAL



ENHANCE
EXPRESSION



ENHANCE
QUALITY



CREATE VALUE
TOGETHER



DEVELOPED WITH SCIENCE
Formulated based on plant physiology and nutrition.



TESTED IN THE FIELD
Proven results in various crops and conditions.



FOCUSED ON RESULTS
Better color, better quality, better profitability.

Better Expression. Better Quality. Better Harvests.

ColorQ+

FIELD EVALUATION

China • Table Grape (Kyoho)

Program: FruitQ+ + Amino Acid Complex

(Including ColorQ+ Nutrition Program)



ENHANCE COLOR

Promotes natural color development and uniformity.



IMPROVE QUALITY

Increases sweetness, firmness and overall eating quality.



INCREASE VALUE

Better appearance and consistency lead to higher market value.

VISIBLE COLOR DEVELOPMENT

From Early Ripening to Full Expression

CONTROL



JUL 13 (FULL EXPRESSION)



COLORQ+
NUTRITION
PROGRAM



WHAT YOU CAN SEE

- ✓ Faster and deeper color development
- ✓ More uniform clusters and berries
- ✓ Better market appearance and premium value

PROGRAM INFORMATION

- 1,000x dilution (1 L/ha)
- 2 weeks before harvest
- 2 applications



QUALITY SHOULD BE SEEN.

The proof is in the color.



Amino Acid Complex

18 amino acids for ripening support



Key Minerals (K, Zn, Mn, B)

Support transport, sugar accumulation and color formation



Ripening-Stage Nutrition

Designed for the critical period before harvest



Field-Proven Results

Tested in multiple locations in China

VISIBLE CHANGE. REAL RESULTS. BETTER MARKET VALUE.

NUTRA-PARK
Science for Better Harvests



PROTECT
POTENTIAL



ENHANCE
EXPRESSION



ENHANCE
QUALITY



EXPRESS
EXCELLENCE

Better Expression. Better Quality. Better Harvests.

THREE SOLUTIONS. ONE GOAL.

MORE QUALITY • LESS LOSS • BETTER MARKETABILITY

The Q+ Portfolio works together to maximize crop potential and grow your profitability.

FruitQ+
ENHANCE QUALITY

Better Fruit Quality
 Improves sugar, color, firmness and shelf life for premium quality.

- Higher Sugar & Brix
- Better Color & Uniformity
- Firmer Fruit & Longer Shelf Life
- Stronger Tolerance to Stress & Disease



+

ProtectQ+
PROTECT POTENTIAL

Less Damage
 Helps crops withstand stress, reduces sunburn, cracking and other losses.

- Sunburn & Heat Stress Protection
- Cracking & Skin Damage Reduction
- Stronger Plant Resilience
- More Marketable Fruit



+

ColorQ+
ENHANCE EXPRESSION

Better Color Expression
 Supports the ripening stage to enhance natural color, sweetness and quality.

- Stronger & Deeper Color
- More Uniform Clusters & Berries
- Better Sweetness & Flavor
- Higher Market Value



CREATING VALUE ACROSS THE CHAIN



For Growers
Healthier crops, higher yield potential and better profits.



For Distributors
Differentiated solutions, higher customer satisfaction and repeat business.



For Buyers & Retailers
Consistent supply of premium quality fruit that meets market demand.



For Consumers
Better taste, better appearance, and safer fruit they can trust.



MORE QUALITY
Better sweetness, color, firmness and shelf life.



LESS LOSS
Reduced stress, sunburn and cracking means more marketable yield.



BETTER MARKETABILITY
Stronger appearance, higher grade, better price.



MORE VALUE. STRONGER RETURNS. SUSTAINABLE FUTURE.



Nutra-Park products are used and trusted in more than 20 countries.

WHY NUTRA-PARK

Science. Validation. Results.

For more than two decades, Nutra-Park has been dedicated to LPE research and the development of practical solutions that deliver proven results in the field.



LPE RESEARCH

Pioneers in LPE science and plant physiology. From discovery to real-world application.



20+
COUNTRIES

Trusted by growers around the world across diverse climates and crops.



500+
FIELD TRIALS

Extensive on-farm trials proving consistent performance and measurable results.



PROVEN SOLUTIONS

Science-backed products that help growers achieve better harvests and higher value.



Different crops. Different environments. Same positive results.



Grape



Apple



Cherry



Strawberry



Tomato



Mango



Blueberry

OUR KEY STRENGTHS



SCIENCE-BACKED

Advanced research in plant physiology and LPE technology.



FIELD-PROVEN

Extensive field validation ensures real and repeatable results.



GROWER-FOCUSED

Solutions designed for growers, by people who understand their needs.



PARTNER-ORIENTED

Building long-term partnerships and growing together worldwide.



SUSTAINABLE FUTURE

Committed to healthy plants, sustainable agriculture, and a better tomorrow.



SCIENCE
Research & Discovery



SOLUTIONS
Product Innovation



APPLICATION
Field Performance



RESULTS
Better Harvests
Higher Value



**HEALTHY PLANT.
BETTER HARVEST.
BETTER FUTURE.**

NUTRA-PARK
Science for Better Harvests.