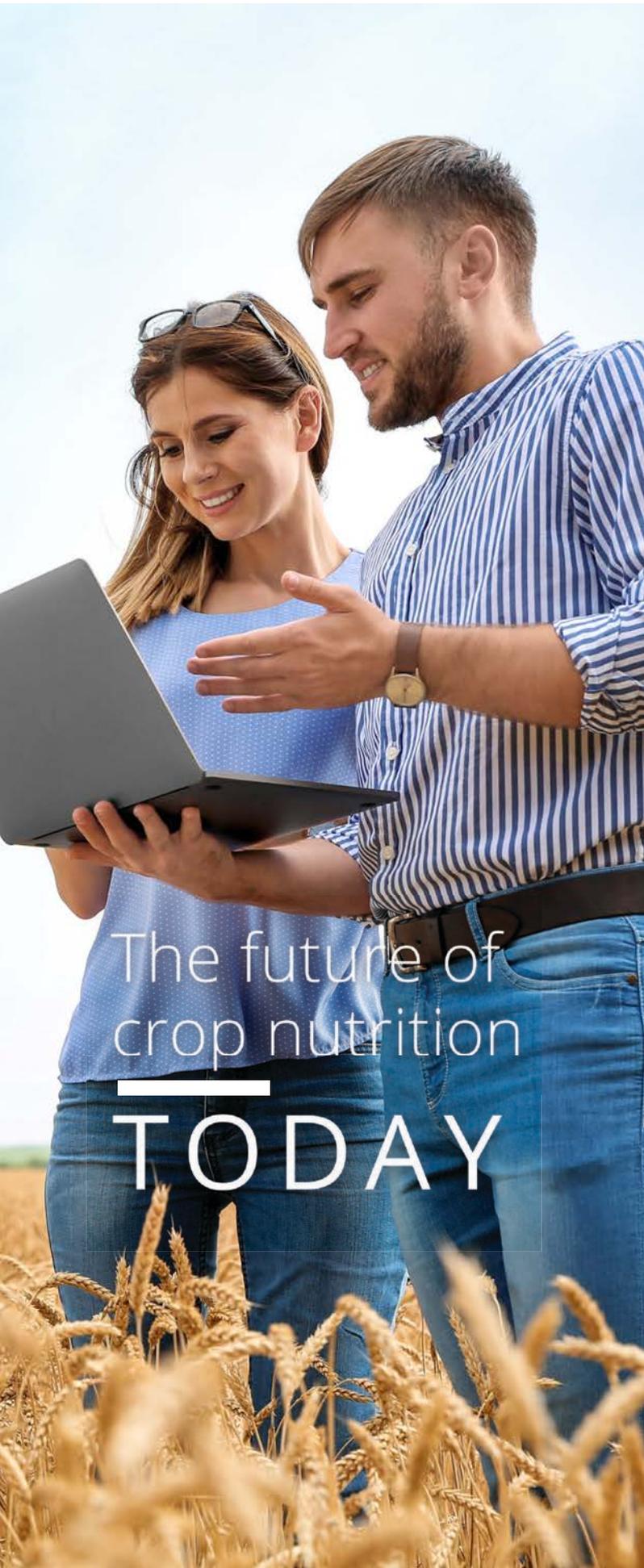




NEXT GENERATION CROP NUTRITION

PRODUCT GUIDE

ilex www.ilex-envirosciences.com
EnviroSciences
advanced crop nutrition



Our Ethos

MAXIMUM EFFICIENCY WITH MINIMUM ENVIRONMENTAL IMPACT

At Ilex EnviroSciences Ltd we understand the constant challenges farmers and agronomists face everyday. Since 2004 we have been helping them improve efficiency, boost crop yield and quality and lessen environmental impacts.

Our aim at Ilex EnviroSciences Ltd is to develop and supply farmers and growers with easy to use, advanced nutrition tools to optimise plant health and crop performance with maximum efficiency. We use only the highest grade raw materials in advanced formulations to deliver nutrition in the most readily plant-available forms.

We are pioneers in the use of phosphite technology and plant biostimulant activators to enhance nutrient-use-efficiency in foliar nutrients and seed treatments.

Using the latest developments in plant science and nutrition, our product development is ongoing to respond to the challenges and pressures faced by modern farming.

HEALTHY PLANTS TARGETED INPUTS

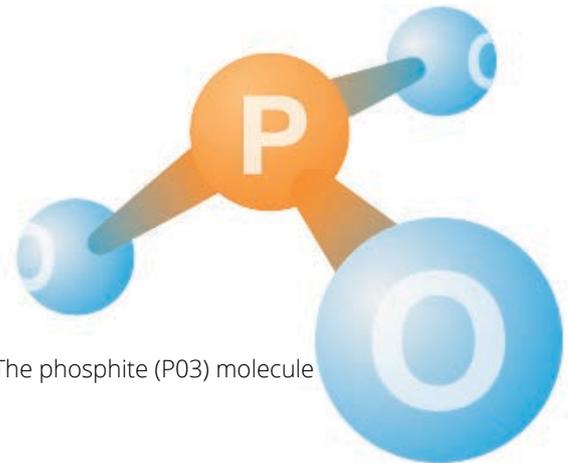
There are six key factors which influence plant growth: light, heat, air, water, mechanical support and importantly, nutrition.

Applied directly to the leaf the Ilex Foliar Product range optimises the availability of the applied nutrients and ensures uptake is not compromised by growing conditions or, in particular, by unfavourable soil chemistry.

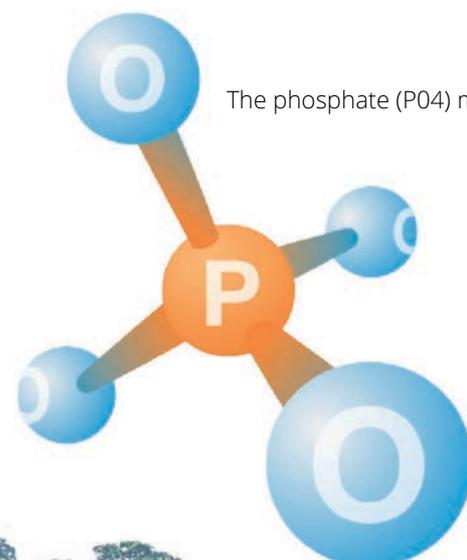
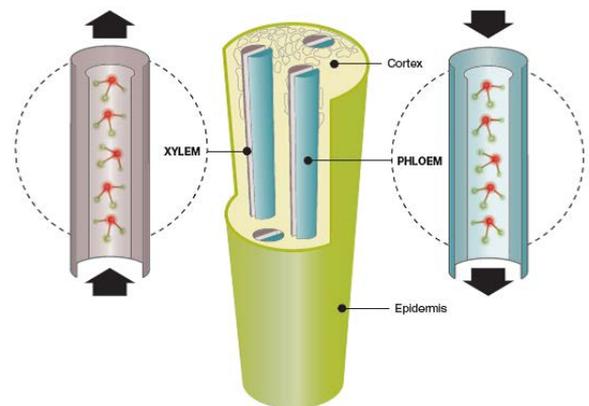
Nutrient availability to the crop is influenced by many soil factors, including imbalance in nutrient levels, pH, temperature and microbial activity. Foliar nutrition can reduce the impact of these factors on healthy crop growth by providing nutrients directly to the plant via the leaf as and when required.

Optimum growth relies on a balanced supply of all nutrients and the lowest level available will prove the 'limiting factor' to growth. Interaction between nutrients in the soil can mean an excess of one, which can interfere with another. This can be corrected by foliar-feeding the crop with Ilex phosphite technology.

Optimum soil pH for a particular crop is usually adjusted to a compromise figure which offers the most benefit. This may often lead to reduced availability of certain essential nutrients. Foliar nutrition applied directly to the leaf can alleviate these issues.



The phosphite (P03) molecule



The phosphate (P04) molecule





HOME GROWN EXPERTS

Ilex EnviroSciences Limited is a British company manufacturing and supplying a comprehensive range of concentrated foliar nutrients, biostimulants and seed treatments. Through research and development we create unique formulations to correct nutrient deficiencies and improve crop health in the most efficient and cost-effective way.

Founded as Ilex Organics in 2004, the company has evolved and expanded its product portfolio to meet the needs of both conventional and organic farming operations, becoming Ilex EnviroSciences Ltd in 2009.

All our staff are BASIS and FACTS qualified and work with many independent agronomists, farmers and growers to help them deliver improved results. Our organic products are certified by the Soil Association and licensed by Organic Farmers & Growers.



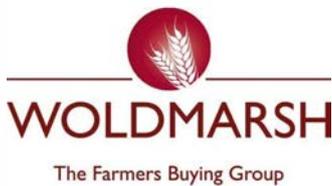
From left to right - Brian Aconley - Technical Director, John Allen - Sales Director and Murray Smedley - Managing Director

EXCEPTIONAL SERVICE

Our highly trained team of area business managers engage directly with our customers to identify specific nutritional requirements, and provide bespoke programmes to achieve the desired results. We create long term relationships where we listen to feedback and respond quickly.

BUYING GROUPS

Ilex works with a network of well respected independent buying groups in addition to supplying farmers directly. We value direct relationships with our customers.



UK DELIVERY

We pride ourselves on delivering an exceptional service to our customers. Having the flexibility of our own delivery fleet ensures stock products will normally be with you on-farm the next working day.



PLANT SCIENCE AND NUTRITION

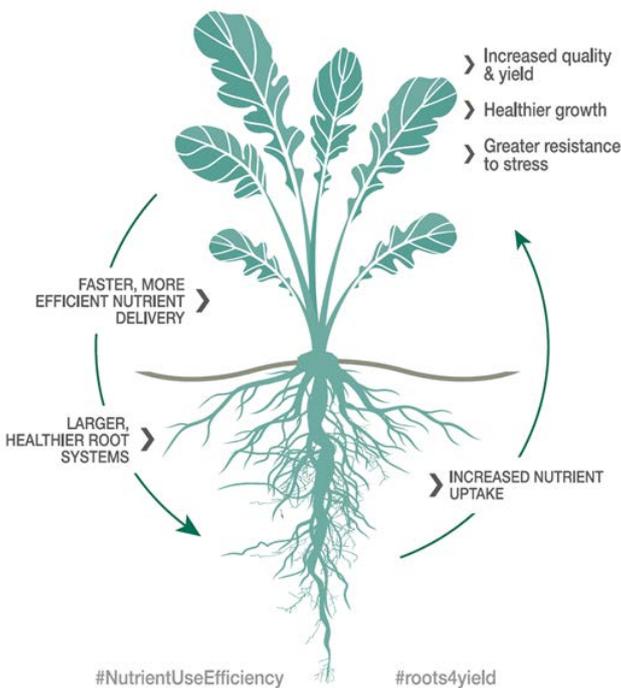


At Ilex EnviroSciences Ltd pure science meets practical agronomy.

With a wealth of experience in crop nutrition, our technical team's expert knowledge is utilised at all stages of research and development to create our new and unique formulations. We are continuously reviewing the latest academic studies and combining new science with feedback from our customers, to provide practical and cost-effective solutions which meet the latest demands of the modern progressive grower.

We use only the highest quality raw materials to provide a consistent and guaranteed analysis. Ilex products are designed to demonstrate pure, stand-alone performance, as well as being flexible for easy incorporation into existing nutrition programmes. Crop response is carefully evaluated via comprehensive on-farm and independent trials, providing data for precise rate and timing recommendations to match changing nutritional requirements over a growing season.

We promote the sustainable use and benefits of our products to key players and Regulators through our active involvement in the European Biostimulants Industry Council, helping bring the technology of tomorrow to the food producers of today.



Ilex Unique
SCIENCE



PRODUCT GUIDE BY CROP

TARGETED FORMULATIONS

Our range provides options for supplementing key nutrients as a seed treatment or as part of your spray programme at key growth stages.



Cereals



Function	Type	Product	Page
Root Development & Health	Nutrient Seed Treatment	Start-uP®	26
Manganese Treatment	Manganese Seed Treatment	Start-uP® MAXX	26
Root Development	Foliar Phosphite	Crop Rooter®Plus	09-10
Manganese/Magnesium/Copper	Concentrated Nutrients	Foliar Nutrients	16-20
Protein Promotion	Nitrogen & Calcium	Pro-Cal	22
Vigour & Yield	Natural Biostimulant	Toggle®	24

Potatoes



Function	Type	Product	Page
Skin Finish & Yield	Seed Tuber Treatment	ProZest	27
Tuber Numbers & Yield	Multi-nutrient Phosphite	PK MAXX +	11
Manganese & Sulphur	Manganese Phosphite	Maniphos	12
Manganese/Magnesium/Copper	Concentrated Nutrients	Foliar Nutrients	16-20
Skin Finish & Quality	Calcium	Calcium Range	21 & 22
Stress Resistance & Yield	Natural Biostimulant	Stimplex®	25 & 29

Oilseed Rape



Function	Type	Product	Page
Root Development	Nutrient Seed Treatment	Start-uP®	26
Root Development	Tailored Nutrient Package	Oilseed Raiser	13
Manganese/Magnesium/Copper	Concentrated Nutrients	Foliar Nutrients	16-20
Optimise Green Area Index	Nitrogen and Calcium	Pro-Cal	22

Brassicas



Function	Type	Product	Page
Root Development	Multi-nutrient Phosphite	Beet Raiser	12
Growth & Vigour	Multi-nutrient Foliar Nutrient	Foliar Boost	19
Manganese/Magnesium/Copper	Concentrated Nutrients	Foliar Nutrients	16-20
Vigour & Yield	Natural Biostimulant	Toggle®	24

Salads



Function	Type	Product	Page
Crop Health & Resilience	Tailored Nutrient Package	PK VEG	14
Yield	Multi-nutrient Phosphite	PK MAXX +	11
Storage & Quality	Calcium Phosphite	CaPITAL	14 & 22
Storage & Quality	Nitrogen and Calcium	Pro-Cal	22
Growth & Vigour multi-nutrient	Foliar Nutrient	Foliar Boost	18
Vigour & Yield	Natural Biostimulant	Stimplex®	24

Alliums



Function	Type	Product	Page
Resilience	Tailored Nutrient Package	PK VEG	14
Shelf life	Silicone Phosphite	TenSile	14
Storage & Quality	Calcium Phosphite	CaPITAL	14 & 22
Storage & Quality	Calcium Biostimulant	AdvoCate	22
Vigour & Yield	Natural Biostimulant	Stimplex®	24

Root Crops



Function	Type	Product	Page
Vigour & Yield	Multi-nutrient Phosphite	PK MAXX +	11
Storage & Quality	Calcium Phosphite	CaPITAL	14 & 22
Storage & Quality	Nitrogen & Calcium	Pro-Cal	22
Growth & Vigour	Foliar Multi-nutrient	Foliar Boost	18
Vigour & Yield	Natural Biostimulant	Stimplex®	24

Protected Crops



Function	Type	Product	Page
Yield	Multi-nutrient Phosphite	PK MAXX +	11
Storage & Quality	Calcium Phosphite	CaPITAL	14 & 22
Vigour & Yield	Natural Biostimulant	Stimplex®	24

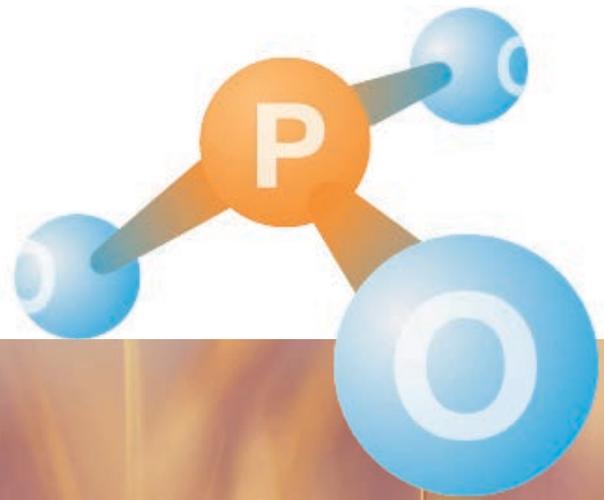
Peas & Beans



Function	Type	Product	Page
Manganese & Sulphur	Manganese Phosphite	Maniphos	12
Resilience	Tailored Nutrient Package	PK VEG	14
Vigour & Yield	Natural Biostimulant	Toggle®	24

A POWERFUL BOOST TO CROP PERFORMANCE

THE ILEX FOLIAR PHOSPHITE RANGE



Phosphite technology has taken foliar nutrition to the next level, boosting growth and yield potential. By increasing the efficiency of nutrient uptake and stimulating root growth, the unique chemistry of phosphites helps crops overcome the stresses of adverse weather, nutrient imbalances and deficiencies.

The Ilex Foliar Phosphite range provides your crops with the nutrients they need, quickly and efficiently, and have shown consistent results in promoting root development. Our carefully balanced formulations combine phosphite technology with key nutrients to give a powerful boost to crop health and performance. Advanced phosphite formulations, applied through the leaf, promote the rapid and systemic delivery of nutrients, stimulate root growth and the uptake of soil-held nutrients to maximise nutrient-use-efficiency.





Crop Rooter® Plus

Crop Rooter® Plus optimises nutrient uptake, improves establishment and delivers up to 4.48% yield increase based on NIAB TAG independent trials. It is the next generation crop biostimulant, offering a highly concentrated NPK foliar feed formulated with 19 plant-derived amino acids to promote root development and healthy plant growth in a range of arable crops.

Crop Rooter® Plus is proven to stimulate early rooting, improving yield and quality. It gives farmers and independent agronomists a flexible, easy to use product with minimal impact on the environment.

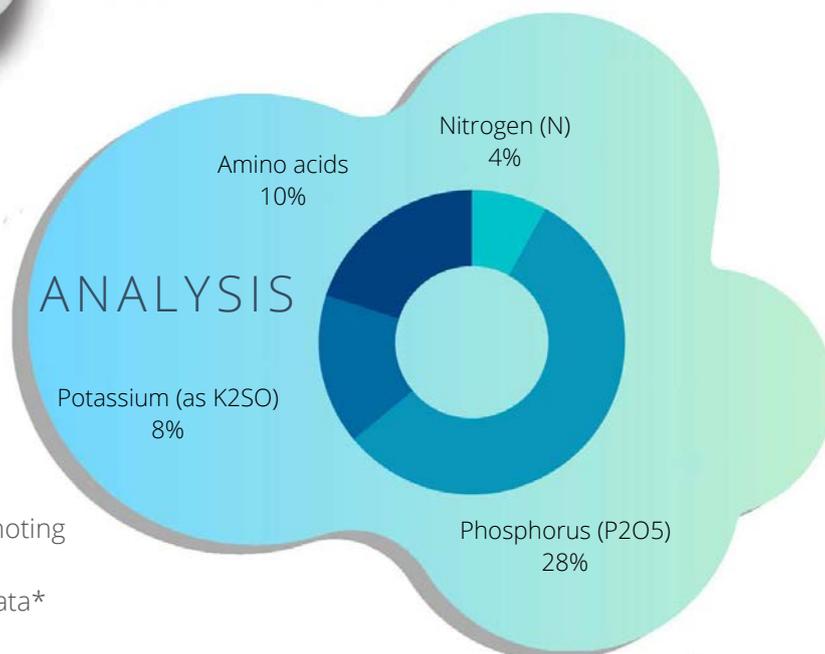
KEY BENEFITS

MAXIMISE & PROTECT QUALITY & YIELD

- Stimulates early rooting for healthy plant development
- Combining foliar nutrient and biostimulant advantages
- Potassium helps reduce environmental stresses during winter dormancy - promoting resistance to frost damage
- Proven results from independent trial data*

FLEXIBLE AND EASY TO USE

- Extensive tank-mix compatibility
- Flexible application timings
- Formulated as a true solution
- Targeted, low application rates



PACK SIZES

2 x 10L & 1000L IBC

INDEPENDENT TRIALS

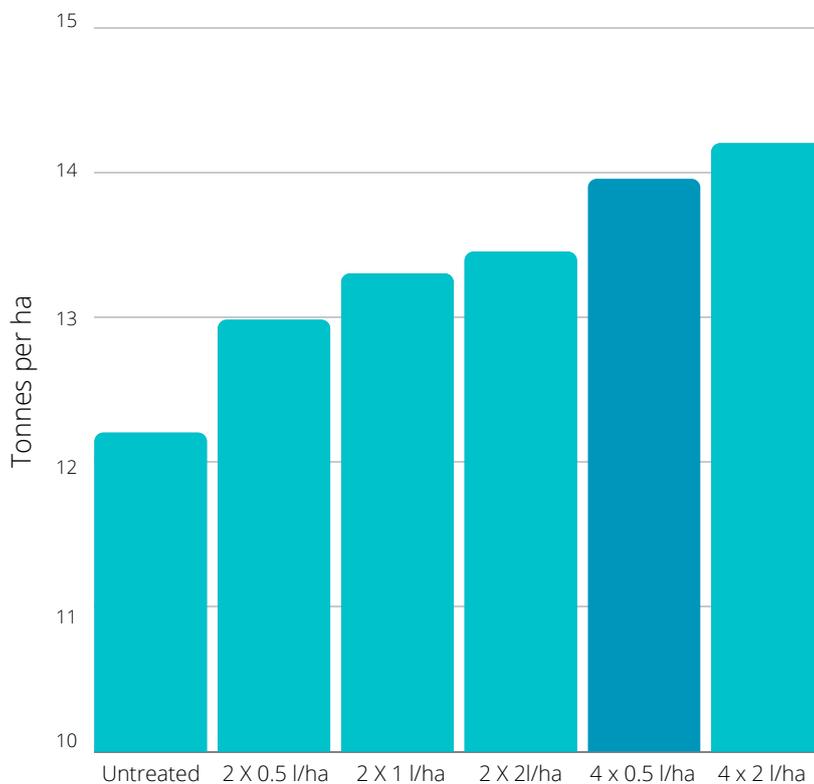


Field trials were conducted in 2019 by NIAB TAG - an independent accredited testing facility - to evaluate the performance and impact of **Crop Rooter® Plus** applied to spring barley (variety RGT Planet).

Applying **Crop Rooter® Plus** at 1.5 l/ha at growth stage 19 BBCH increased root length and specific grain weight to give an overall yield increase of 4.48%.

Although not statistically significant, a longer root structure is beneficial in the optimisation of nutrient uptake and improved establishment.

Yield responses across a variety of application programmes



VELCOURT

A replicated field trial was conducted in 2020 by Velcourt Limited to evaluate a range of application rates and timings of **Crop Rooter® Plus** on winter wheat (variety KWS Siskin).

Results showed that precisely timed, low rate application programmes from establishment through to T2 (flag leaf emerged) gave yield increases compared to untreated.

Crop Rooter® Plus demonstrated improvements in yield even on fertile soils. Treatments shown in the graph indicate statistically significant yield increases.

For comprehensive and detailed trial results on all our products, please contact your local Ilex EnviroSciences representative.

PK MAXX™ +

Phosphorus is key to crop performance as it provides the energy source for those chemical processes in the plant which lead to growth and yield. **PK MAXX+** is a unique multi-nutrient formulation which combines phosphorus with key micronutrients to promote root development and boost healthy plant growth in a wide range of field and vegetable crops.

PK MAXX+ combines phosphorus in both the phosphate and phosphite forms to provide rapid and efficient delivery of phosphorus at critical growth periods, boosting root development and stimulating healthy growth.

Timed applications of **PK MAXX+** at key growth stages can be used to influence crop quality and yield.

KEY BENEFITS

- Improves quality and yield
- Effective on a wide range of field and vegetable crops
- Maximises phosphorus availability and delivery
- Promotes healthy root development
- All-in-one nutrient package
- Rapid and efficient delivery of key nutrients
- Easy to use and highly compatible in tank mixes

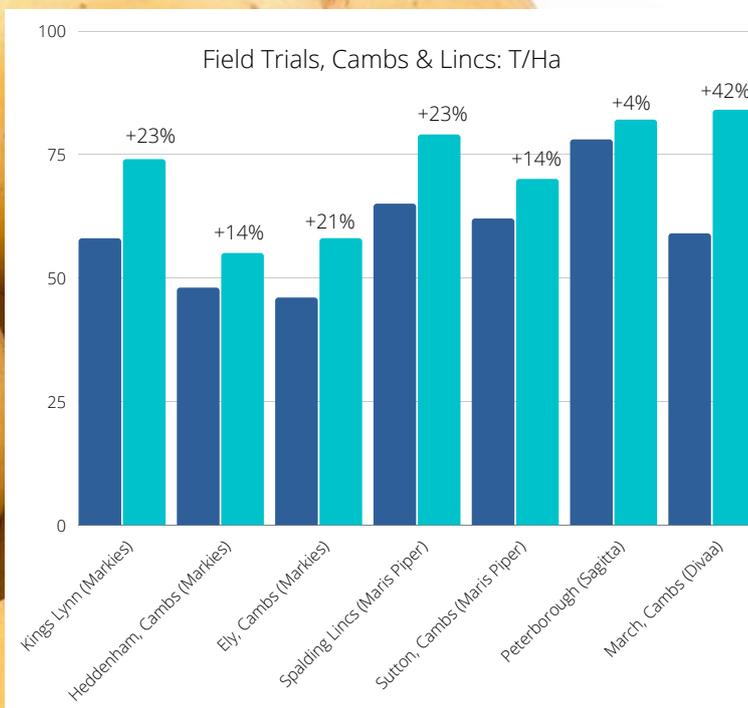
Adding **PK MAXX+ has shown consistent performance in a variety of UK trials. Recent field trials carried out on four potato varieties in Cambridgeshire, showed yield increases of 14 to 42% across all soil types. Treated with two 2.0 l/ha applications of **PK MAXX+**, at early tuber bulking and 14-21 days later.*

PACK SIZES

2 x 10L & 1000L IBC



Unique multi-nutrient formulation boosts potato yields up to 42%*



Maniphos™

Ideal for Peas and Beans



Maniphos is a multi-action manganese liquid nutrient product, using phosphite technology to stimulate highly efficient nutrient uptake.

Maniphos is a unique formulation of plant-available manganese in combination with phosphorus (present in both phosphite and phosphate forms), potassium and sulphur. It is designed to enhance and promote the healthy growth and development of crops.

This product is a zero-nitrogen formulation that can be applied to peas and field beans to prevent manganese and sulphur deficiencies, promoting hardiness and natural disease resistance to enhance quality and yield.

PACK SIZES

10L & 1000L IBC

Beet Raiser™

Sugar Beet Root Boost

Beet Raiser is a concentrated foliar nutrient solution based on proven phosphite (PO₃⁻) chemistry. Formulated to boost root development, nutrient uptake and stress resistance, **Beet Raiser** helps sugar beet crops achieve their full potential.

The early growth stage is crucial to sugar beet yield, as sugar accumulation begins from very early in the growth cycle. Adverse weather and low soil temperatures experienced during this key period can restrict root growth, nutrient uptake, plant health and ultimately, yield.

The supply of vital nutrients, combined with increased root development and more efficient uptake of soil-held nutrients, ensures optimum nutrition during this important early phase. A well fed crop with a robust root system, has an increased potential to maximise yield through healthy canopy growth and productive photosynthesis. Optimal nutrition also encourages more uniform growth and development of both leaves and roots.



PACK SIZES

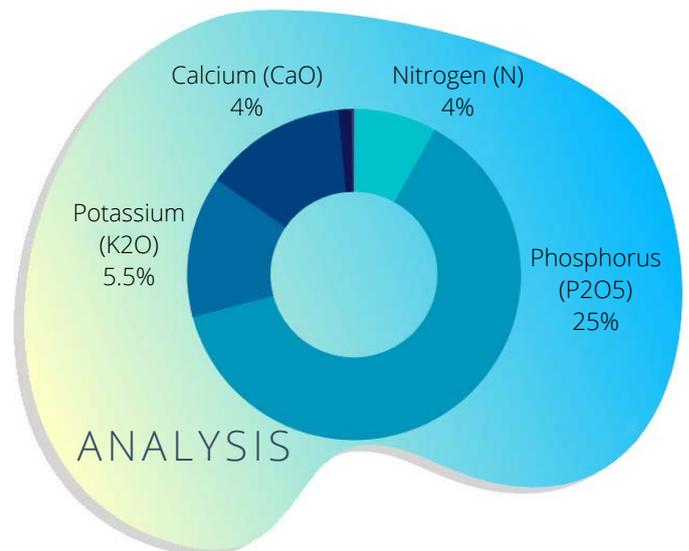
10L & 1000L IBC

OilSeed Raiser™



OilSeed Raiser is a concentrated foliar nutrient solution based on proven phosphite (PO₃⁻) technology with a tailored nutrient package to help oilseed rape crops reach their full potential. It promotes healthy root development and boosts crop resilience.

The unique formulation of macro and micronutrients has been specifically designed to boost oilseed rape growth, particularly during the key establishment period. Essentially a brassica, the nutrient requirement of oilseed rape is substantial and very different from other arable crops such as cereals.



In an oilseed rape YEN trial programme, using **OilSeed Raiser** increased yield by 0.671 tonnes/ha (0.272 tonnes/ac)

PACK SIZES

10L & 1000L IBC

NUTRITIONAL SUPPLEMENT AND PHOSPHITE-POWERED DELIVERY

The early application of the vital nutrients, combined with the biostimulating action of the phosphite component in OilSeed Raiser, promotes both growth and activity in the plant's own natural defence systems. A well fed crop with robust and healthy roots and leaves has an increased natural ability to resist disease, pests and stress.



TenSile™

Silicone and potassium



TenSile is a highly efficient liquid nutrient combining silicon and potassium with phosphite P and seaweed-derived natural biostimulants, formulated to improve crop strength, quality and shelf life.

The product contains a soluble form of potassium silicate to strengthen stem and leaf tissue for healthier, more robust, arable, vegetable and salad crops.

TenSile works by increasing silicon deposited in the cell walls, which forms a protective layer, reducing transpiration through the outer cells. This means plants wilt less and are more tolerant of heat stress. The increased strength in cell walls improves leaf presentation to light and enhances stem strength. Soluble silicon also enhances nutrient uptake and can increase chlorophyll concentration. Epidermal cell walls containing silicon deposits can act as a mechanical barrier to fungi and insects.

Pack sizes

2 x 10L & 1000L IBC

CaPITAL™

Calcium for strength

With Ilex's proven phosphite technology to optimise healthy plant growth through superior nutrition, **CaPITAL** is a highly effective foliar treatment specifically formulated for vegetable and salad crops.

CaPITAL is a new generation phosphite, containing high levels of soluble calcium together with the key nutrients, boron and zinc. The provision of optimum levels of calcium are important for root development, maintaining plant health and strengthening cell walls for improved quality and shelf life. **CaPITAL** is formulated for fast-acting nutrition, maximising the availability of strength-building calcium at key growth stages.

Pack sizes

2 x 10L & 1000L IBC



PK VEG™

Potassium power

PK VEG is a highly concentrated solution based on plant-available phosphorus in the phosphite form. It is specially formulated together with potassium to promote strong root development and maintain healthy plant growth in vegetable and salad crops.

Due to its unique formulation, **PK VEG** is able to improve the uptake and subsequent mobility of essential nutrients within the crop, ensuring optimum nutrition is sustained throughout the growing cycle. **PK VEG** can be tank-mixed with other products in the Ilex EnviroSciences' range of foliar nutrients to produce improved effects on crop development and quality.

Pack sizes

10L & 1000L IBC



OPTIMISED PH LEVELS GIVE A MORE CONSISTENT PRODUCT PERFORMANCE

Applying the concept of increased stability in the tank and mobility in the plant, Ilex have developed ModipHy Xtra. This product is an advanced water conditioner designed to optimise pH levels in the tank, maintaining activity and maximising the uptake and performance of spray solutions in the plant.

ModipHy Xtra™

Counter the effects of hard water and high pH

ModipHy Xtra is a high-performance water conditioner formulated to counter the effects of hard water and high pH levels by maximising product stability in the tank and mobility in the plant.

Adding **ModipHy Xtra** to your spray solution optimises pH levels and improves coverage and leaf uptake, giving a more consistent product performance over a broad range of spraying conditions and crop situations.

The high pH levels associated with naturally hard water can cause some pesticide materials to undergo degradation or chemical breakdown (known as hydrolysis). In the worst cases this can create losses of up to 50% in activity. Water hardness is a result of dissolved elements such as calcium and magnesium which reduce the effectiveness of the active ingredient on its intended target.

ModipHy Xtra is widely compatible and suitable for use with most commonly applied agrochemicals and foliar nutrients.



Pack sizes

10L, 200L & 1000L IBC



The Dosatron is a perfect companion to our **ModipHy Xtra** water conditioner, as it operates by using the flow of water as the power source when installed directly in the water supply line.

The water activates the Dosatron, which takes up the required percentage of **ModipHy Xtra** directly from the container and injects it into the water. Inside the Dosatron, **ModipHy Xtra** is mixed with the water, and the water pressure forces the solution downstream. The dose of concentrate will be directly proportional to the volume of water, regardless of variations in flow or pressure which may occur in the main line.



EFFECTIVELY TARGET NUTRIENT DEFICIENCIES

THE ILEX FOLIAR NUTRIENT RANGE



You can target nutrient deficiencies more efficiently by using advanced foliar formulations that deliver nutrients in more readily plant-available forms. Ilex concentrated liquid nutrients have been developed for maximum uptake efficiency and ease of application and can be used on a wide range of arable and horticultural crops.



Mn SUPER™

Mn SUPER is the most recent introduction from Ilex EnviroSciences Ltd. This product provides farmers with a uniquely effective treatment for manganese deficiency issues, whilst providing a range of additional crop benefits from its next generation formula of foliar nutrients.

Due to the unique combination of soluble manganese, magnesium and zinc with nitrogen and sulphur, **Mn SUPER** provides excellent performance even at low rates of application. **Mn SUPER** has quickly established itself as the preferred option for boosting nutrient levels in the growing crop.



“Mn SUPER provides a range of key nutrients in one foliar application.”

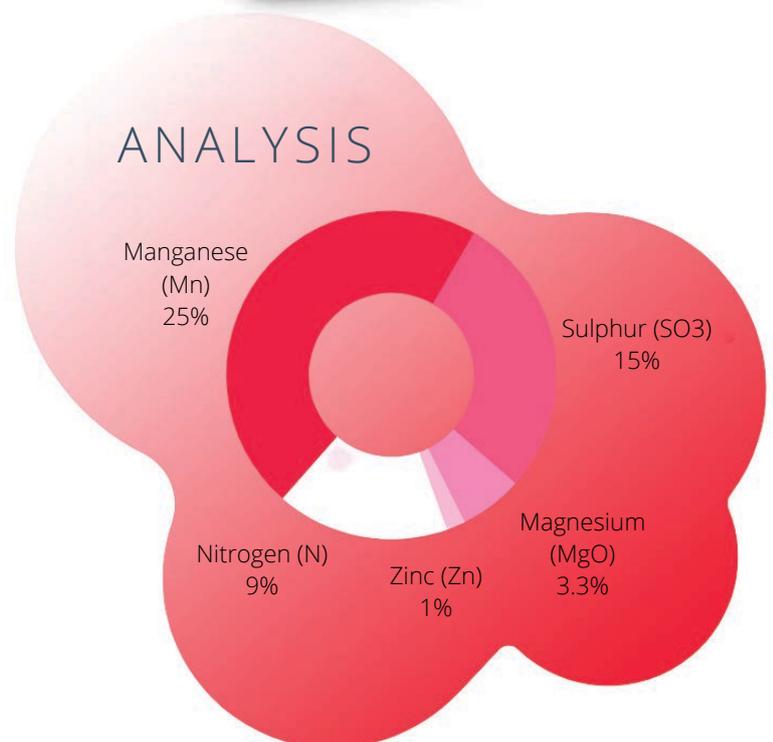
KEY BENEFITS

- Quick acting nutrient supply
- High concentration of manganese
- Effective at low application rates
- Helps increase the levels of magnesium and zinc in the plant
- Easy to use in tank mixes

Mn SUPER is physically compatible with a wide range of agrochemical products and is formulated to disperse and dissolve quickly in the spray tank.

In addition to providing 250g/l of manganese, **Mn SUPER** also provides the crop with magnesium, zinc, nitrogen and sulphur. 5 litres - when applied at the maintenance rate - is sufficient to treat up to 10ha, minimising required storage space and reducing packaging waste.

ANALYSIS



PACK SIZES

2 x 5L & 600L IBC

Mag Plus™

High concentrate magnesium plus nitrogen



Mag Plus is a highly concentrated fast-acting magnesium liquid formulated for ease of use. Historically the prevention and correction of magnesium deficiency in crops has involved time-consuming and labour-intensive use of many bags of powdered product. More recently, basic liquid products have appeared on the market, however these still require high dose rates, so don't solve the need to transport large volumes around the farm.

To provide farmers with an effective alternative Ilex have introduced the highly concentrated solution **Mag Plus** as part of our new generation of foliar nutrients. Due to its enhanced formulation of soluble magnesium with nitrogen, **Mag Plus** is able to demonstrate superior performance even at relatively low rates of application.

Pack sizes

2 x 10L & 1000L IBC

Plus Hy-N™

Slow release high analysis nitrogen

Plus Hy-N is an essential nitrogen boost for arable crops. It is an advanced, high-analysis nitrogen formulation with three forms of fast and slow release nitrogen, boosting root development and stress resistance.

Adverse weather and poor soil conditions experienced during key growth periods can cause severe deficiencies in essential nutrients, which impacts on root growth, water uptake, plant health and ultimately, yield. Nitrogen promotes growth at all stages of the plant's development.

Pack Sizes

10L



Mn-Zn Plus™

Manganese + Zinc

Both manganese and zinc play key roles as catalysts in many enzyme functions and encourage root interaction with beneficial soil microbes and fungi, improving nutrient uptake. Supplied as a concentrated flowable liquid formulation **Mn-Zn Plus** is designed to promote strong plant growth from early crop stages through to harvest.

Due to its unique combination of soluble manganese and zinc nutrients, **Mn-Zn Plus** is able to demonstrate superior performance even at very low rates of application.

Pack Sizes

2 x 5L & 600L IBC



Foliar Boost™

A CONCENTRATED MICRONUTRIENT TO MAXIMISE CROP VIGOUR AND YIELD POTENTIAL

Foliar Boost represents a new development in the science of foliar nutrition, combining plant-available nitrogen and sulphur with key micronutrients manganese, magnesium, copper and zinc.

All of these elements play a vital role in healthy crop growth and are particularly required when adverse conditions hamper normal crop development.

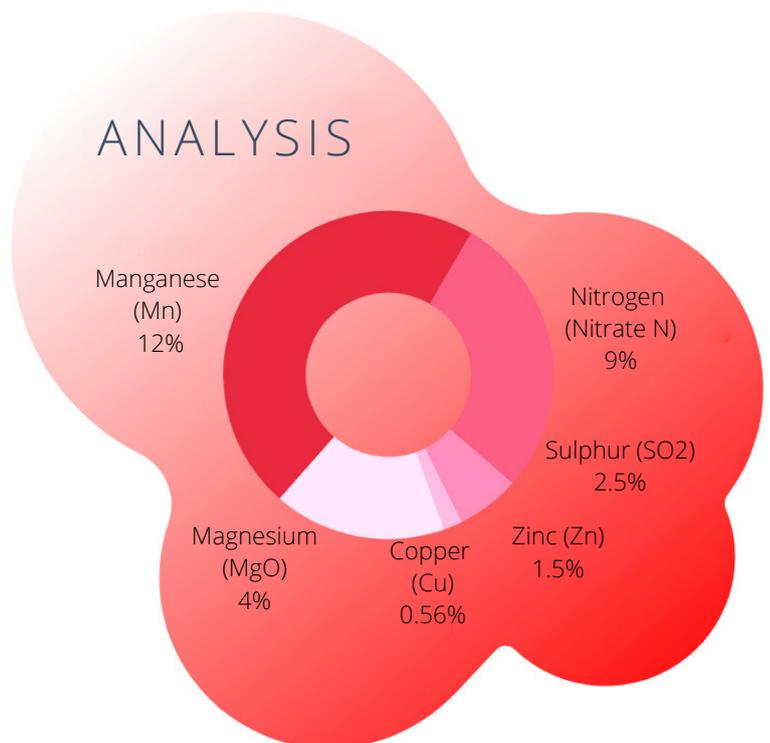
Foliar Boost is suitable for use on all arable and field vegetable crops during times of stress or periods of rapid growth.

"WHEN MY CROP'S GROWING FAST, FOLIAR BOOST DELIVERS HIGH LEVELS OF JUST WHAT MY CROP NEEDS TO GET IT TO HARVEST"



KEY BENEFITS

- Rapid absorption for fast response
- Highly concentrated solution
- Effective at low application rates
- Wide tank mix compatibility
- Contains key elements for all arable and field vegetable crops



PACK SIZES

10L

Mn-Cu Plus™

Superior performance at low application rates

Mn-Cu Plus has been developed to ease the workload of the spray operator. It offers a convenient method of correcting manganese and copper deficiencies in the developing crop.

Formulated as a high analysis flowable liquid, **Mn-Cu Plus** moves on from simple liquid solutions, which still require high application rates and give rise to problems with transport and disposal of used packaging. Due to its unique combination of soluble manganese and copper nutrients with nitrogen and sulphur, **Mn-Cu Plus** can be easily applied at much lower application rates and retain effective crop performance.

Pack Sizes

2 x 5L & 600L IBC



Mn Plus™

Superior performance manganese with nitrogen

To provide farmers with an effective alternative to bulky powders or liquids requiring high application rates, Ilex have introduced the highly concentrated flowable liquid **Mn Plus** as part of their new generation of foliar nutrients.

Due to its unique combination of soluble manganese with nitrogen and sulphur, **Mn Plus** is able to demonstrate superior performance even at low rates of application.

Pack Sizes

2 x 5L & 600L IBC



Cu-Zin™

Copper + Zinc

As well as preventing deficiencies, **Cu-Zin** has been manufactured to maintain increased levels of copper and zinc in the plant for extended periods of growth, thus maximising pollen production, and in the case of cereals, enhancing grain-fill.

Cu-Zin has been extensively tested with a wide range of pesticides and found to be physically compatible with the vast majority of all approved agrochemical products and is specially formulated to disperse quickly in the spray tank. Trials have shown that the formulation used in **Cu-Zin** ensures it is rainfast on the leaf surface soon after application.

Pack Sizes

2 x 5L



CRUCIAL CALCIUM FOR HEALTHY, RESILIENT CROPS

CALCIUM WITH A POWERFUL BIOSTIMULANT BOOST



Calcium is crucial for healthy, resilient crops but its immobility within the plant makes product formulation key to efficient performance. Ilex calcium supplements combine balanced nutrients with powerful biostimulants to boost uptake and activity. The provision of optimum levels of calcium are important for root development, maintaining plant health and strengthening cell walls for improved quality and shelf life.



CaPITAL™

Calcium for strength

With Ilex's proven phosphite technology to optimise healthy plant growth through superior nutrition, **CaPITAL** is a highly effective foliar treatment specifically formulated for vegetable and salad crops.

CaPITAL is a new generation phosphite containing high levels of soluble calcium together with the key nutrients boron and zinc. The provision of optimum levels of calcium are important for root development, maintaining plant health and strengthening cell walls for improved quality and shelf life. **CaPITAL** is formulated for fast-acting nutrition, maximising the availability of strength-building calcium at key growth stages.



Pack Sizes

2 x 10L & 1000L IBC



AdvoCate™

Calcium, natural sugars and amino acids

AdvoCate is a unique generation formulation of calcium. In combination with key nutrients and bioactive agents it provides a highly effective foliar treatment for vegetable and salad crops.

Unlike traditional products such as calcium chloride and calcium nitrate, **AdvoCate** is complexed with natural sugars, amino acids and seaweed, providing exceptional calcium mobility within the crop leading to enhanced nutrient uptake and delivery. **AdvoCate** is recommended for the correction of physiological disorders and increasing storage qualities in a wide variety of vegetables.

Pack Sizes

2 x 10L

Pro-Cal™

Nitrogen with plant-available calcium

Pro-Cal is a new form of foliar nutrient combining stabilised nitrogen with plant-available calcium, together with essential micronutrients.

Pro-Cal can be used to benefit a wide range of horticultural and vegetable crops. Timed applications at important growth stages will promote an initial strong root system before helping maintain healthy development of the crop through to harvest.

Pack Sizes

20L



SEAWEED-BASED BIOSTIMULANT TECHNOLOGY

BIOACTIVE COMPOUNDS FOR VIGOUR AND YIELD



Seaweed is recognised as one of the world’s first biostimulants and has been successfully used by growers since the earliest days of farming.

Acadian Seaplants are one of the world’s largest producers of seaweed extracts, supplying products to a global market. A unique extraction and refining process ensures their products contain the highest concentration of natural occurring bioactive compounds, from sustainably sourced North Atlantic *Ascophyllum nodosum*, to guarantee maximum performance and consistency in every formulation. When matched to a R&D programme with 35 years of published studies encompassing over 80 crops, quality and benefits are beyond doubt. Illex EnviroSciences are the appointed exclusive UK Distributors for their leading brands Stimplex® and toggle®.





Stimplex® enhances root growth and early plant development, whilst increasing photosynthesis and nutrient usage to promote overall plant health. This product maximises natural plant resistance to environmental stresses and improves quality and yield.

With the highest standards of product quality and consistency **Stimplex®** is approved for use in organic growing systems. **Stimplex®** is a concentrated liquid biostimulant containing key natural compounds and nutrients to deliver results on a wide range of conventional and organic-grown arable, horticultural and ornamental crops.

The naturally balanced plant nutrients, vitamins and active compounds found in **Stimplex®** work at a cellular level to stimulate root and shoot growth. Liquid seaweed extract in **Stimplex®** is derived and refined from pure sources of North Atlantic *Ascophyllum nodosum*, using a uniquely benign extraction process that guarantees maximum performance and consistency.

Pack Sizes



2 x 10L



toggle® is a super-value concentrated liquid biostimulant specifically developed for broadfield crops. This product enhances root growth and early plant development. It increases photosynthesis and nutrient usage to promote overall plant health. **toggle®** maximizes natural plant resistance to environmental stresses to improve quality and yield.

For the greatest benefit, **toggle®** should be used routinely as a preventative treatment to maintain superior crop health and alleviate the symptoms of physiological and nutritional stress. With excellent curative properties, applications of **toggle®** will improve the speed of recovery from injury or stressful growing conditions, such as drought or water logging.

toggle® has an effective formula of naturally balanced plant nutrients, vitamins and active compounds which work at a cellular level to stimulate root growth, improve plant vigour and increase yield. The liquid seaweed extract in **toggle®** is derived and refined from pure sources of North Atlantic *Ascophyllum nodosum*.



Pack Sizes



2 x 10L

GET AHEAD AND BOOST CROP ESTABLISHMENT

THE ILEX SEED TREATMENT RANGE



Advanced nutrient seed treatments provide a readily available source of essential nutrients at the key establishment and early growth stages. Balanced nutrient packages and biostimulants boost healthy crop development.

Ilex EnviroSciences' seed treatments combine the proven phosphite chemistry with bioactive agents and a nutrient-rich package to promote rapid establishment and early vigour in a variety of crops. In addition to the benefits of early vigour, application directly to the seed ensures availability of essential nutrients for growth, without the possible delays of foliar applications due to adverse spraying conditions.

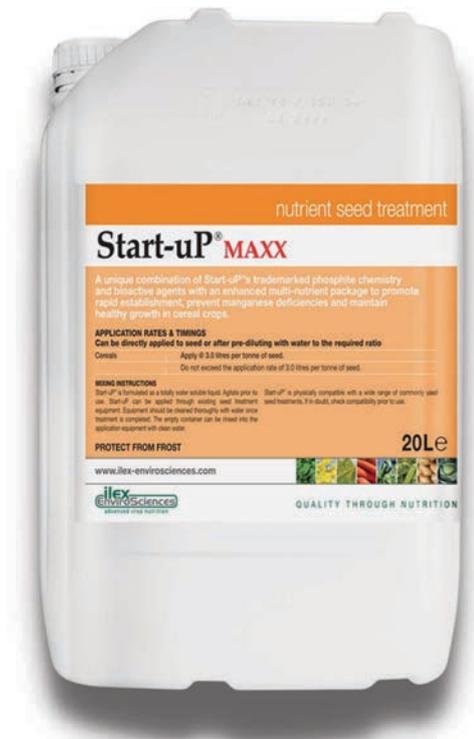


Start-uP® MAXX

Phosphite-powered, manganese-rich

Start-uP® MAXX is an advanced seed treatment for early vigour. It combines the proven phosphite chemistry of **Start-uP®** with bioactive agents and a manganese-rich nutrient package to promote rapid establishment and early vigour in autumn- and spring-sown wheat and barley.

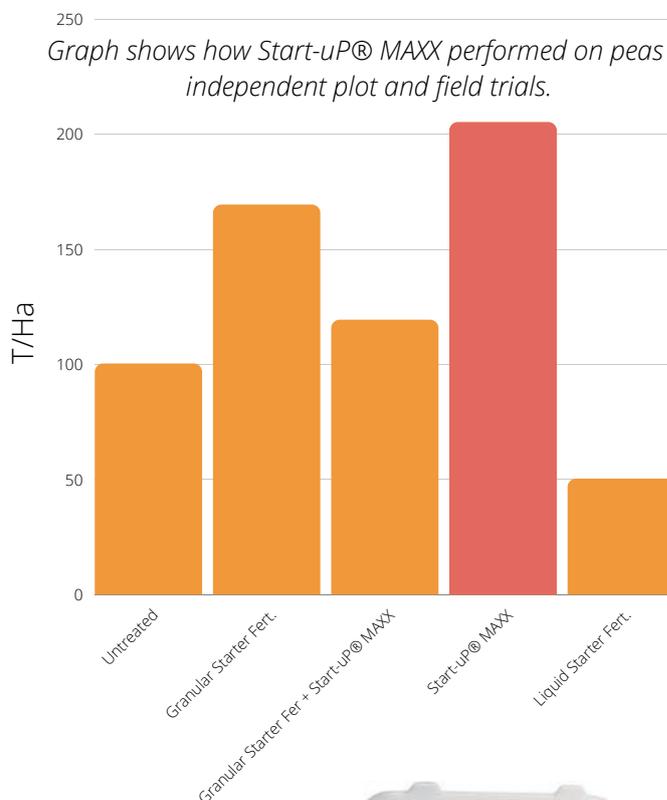
In addition to the benefits of early vigour, application directly to the seed ensures availability of essential nutrients for growth, without the possible delays of foliar applications due to adverse spraying conditions.



KEY BENEFITS

- Phosphite P to power root growth
- High levels of manganese to counter low availability
- Amino acids to supplement crop development
- Trace element package readily available to germinating seed
- More even establishment
- Enhanced nutrient uptake
- Increased quality and yield potential

Graph shows how Start-uP® MAXX performed on peas in independent plot and field trials.



Start-uP®

Trace element package readily available to germinating seed

Start-uP® is our original formula. It consists of a unique combination of soluble nutrients and bioactive compounds and is specifically formulated for use as a concentrated seed treatment for arable crops.

PACK SIZES

20L



Man-uP™

Manganese-rich seed treatment



PACK SIZES

20L

To protect cereals from early deficiency problems, **Man-uP** provides a highly plant-available source of manganese to the germinating seed. Manganese is the most commonly deficient trace element in UK soils. It plays a key role in photosynthesis and is vital for many plant enzyme systems. **Man-uP** combines high levels of manganese with nitrate nitrogen and is designed to treat cereals and oilseed rape to ensure availability of these essential nutrients during the critical early stages of growth.

Treating the seed with manganese is the most efficient way to protect the crop from early deficiencies, ensuring a guaranteed supply when there is too little leaf area for effective foliar application and protecting against possible delays in application due to adverse spraying conditions.

The proprietary blend of surfactants in **Man-uP** gives excellent coverage and adherence to the seed and its formulation as a true solution means it can be evenly applied and dries quickly allowing the seed to run easily through the drill.

ProZeSt™

Zinc, sulphur and calcium. Liquid or powder



PACK SIZES

Liquid: 4 x 3L boxed

Powder: 4 x 3.25kg boxed

ProZeSt is a powder or liquid formulation of zinc, sulphur and calcium, for application to potatoes at planting to prevent and correct many nutrition-related disorders and improve yield potential.

It supplies the crop with the key nutrients zinc, sulphur and calcium and contains the vital elements that help improve skin finish to maximise saleable ware. **ProZeSt** has consistently increased overall yields in UK farm trials.

Lack of available zinc to the developing tubers can increase susceptibility to soil-borne pathogens, leading to a poorer quality skin finish. Sulphur is converted to sulphates and sulphites by microbes in the soil to provide a mildly acidic growing environment for the crop, assisting tuber health and improving nutrient availability. Calcium plays a vital role in plant health and is associated with improved storage characteristics of the subsequent ware crop.

CERTIFIED INPUTS

THE ILEX ORGANIC NUTRITION RANGE



The Ilex Organic Nutrition range delivers carefully balanced liquid formulations, offering easy to use supplementary feeds to improve crop development and alleviate nutritional stress. All products are certified by the Soil Association and licensed by Organic Farmers & Growers.





Stimplex® enhances root growth and early plant development, whilst increasing photosynthesis and nutrient usage to promote overall plant health. This product maximises natural plant resistance to environmental stresses and improves quality and yield.

With the highest standards of product quality and consistency, **Stimplex®** is approved for use in organic growing systems. **Stimplex®** is a concentrated liquid biostimulant containing key natural compounds and nutrients to deliver results on a wide range of conventional and organic-grown arable, horticultural and ornamental crops.

The naturally balanced plant nutrients, vitamins and active compounds found in **Stimplex®** work at a cellular level to stimulate root and shoot growth. Liquid seaweed extract in **Stimplex®** is derived and refined from pure sources of North Atlantic *Ascophyllum nodosum* using a uniquely benign extraction process that guarantees maximum performance and consistency.



Pack Sizes

2 x 10L & 1000L IBC

Complete™ (6-2-4)



Complete (6-2-4) is our most versatile analysis to provide the most rounded blend in the range. It is ideal for situations where an increase in available nutrition is required to boost growth of both green tissue and roots and enhance overall plant health.

Complete (6-2-4) provides a free-flowing liquid which disperses easily in water with the minimum of mixing. This product is commonly used to enhance initial growth of transplants, leafy salad crops, and in protected crops.



Pack Sizes

20L & 1000L IBC

Complete Hi-Fruit™ (4-2-6)



Complete Hi-Fruit (4-2-6) offers higher potassium content for situations where conditions may restrict full crop maturity or fruit development, thus reducing yield potential. This new formulation provides a free-flowing liquid with a high water solubility and minimal sedimentation.

This product is often used to boost plant health in outdoor vegetable and fruit cropping situations where restricted soil fertility or poor weather conditions prevail and in protected crops when their requirement for potassium is increased.

Pack Sizes

20L & 1000L IBC

K-Max™ (3-1-8)

K-Max (3-1-8) offers the highest analysis of organically sourced potassium in liquid form. It improves crop potential in both protected and outdoor crops by supplying this key nutrient at crucial stages of growth. This product is of particular importance in stimulating reproductive growth and promoting fruit development.



N-Max™ (7-2-2)

N-Max (7-2-2)* offers the highest analysis of organically sourced nitrogen in liquid form. It provides an immediate and lasting boost to both protected and outdoor crops, by allowing the plants to maximise green leaf area and enhance vegetative growth.



Ultimate Gold™ (8-7-7)

Ultimate Gold (8-7-7)* is a very high quality suspension of blended fish extracts. It is specifically for use in protected cropping situations and contains very high levels of all the essential micronutrients. This product is recommended for seedling and plug plant applications.

Pack Sizes

20L & 1000L IBC.



*N-Max and Ultimate Gold have Restricted Use status under the Soil Association certification and require prior derogation for use.

THE ILEX ENVIROSCIENCES TEAM



Ilex EnviroSciences Limited
 Willingham Hall, Willingham Road
 Market Rasen, Lincolnshire LN8 3RH



Main Office: +44 (0)1673 885175
 Sue Vickers - Office Manager
 Barbara Reeve - Administration



sales@ilex-envirosciences.com
 office@ilex-envirosciences.com



@cropnutrition

SALES TEAM



John Allen
 UK Sales Director
 FACTS (FE/4225)
 +44 (0)7703 186071
 john@ilex-envirosciences.com



Andy Burton - Business Manager (West)
 BASIS (E/1783)
 BASIS (P/45) FACTS (FE/4225)
 +44 (0)7394 562247
 andy@ilex-envirosciences.com



James Thornalley
 Business Manager (North)
 BASIS (R/E/6222/ICM) FACTS FE/5404)
 +44 (0)7715 217421
 james@ilex-envirosciences.com



Richard Mason
 Business Manager (South)
 FACTS (FE/6508)
 +44 (0)7394 564621
 richard@ilex-envirosciences.com



Ed Cooper
 Business Manager (East)
 BASIS (R/E/4255/ICM) FACTS (FE/2218)
 +44 (0)7375 978725
 ed@ilex-envirosciences.com

MANAGEMENT TEAM



Murray Smedley
Managing Director
BASIS (E/5498) FACTS (FE/4298)
+44 (0)7967 746883
murray@ilex-envirosciences.com



Brian Aconley
Technical Director
BASIS (E/2376) FACTS (FE/2505)
+44 (0)7595 711775
brian@ilex-envirosciences.com



Mike Burton
Marketing & Sales Support
Manager
+44 (0)7540 066998
mike@ilex-enviroscience.com

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Tel: +44 (0) 1673 885175 - sales@ilex-envirosciences.com - www.ilex-envirosciences.com - @cropnutrition
Company Registration Number: 04991822