

Ympact[®]

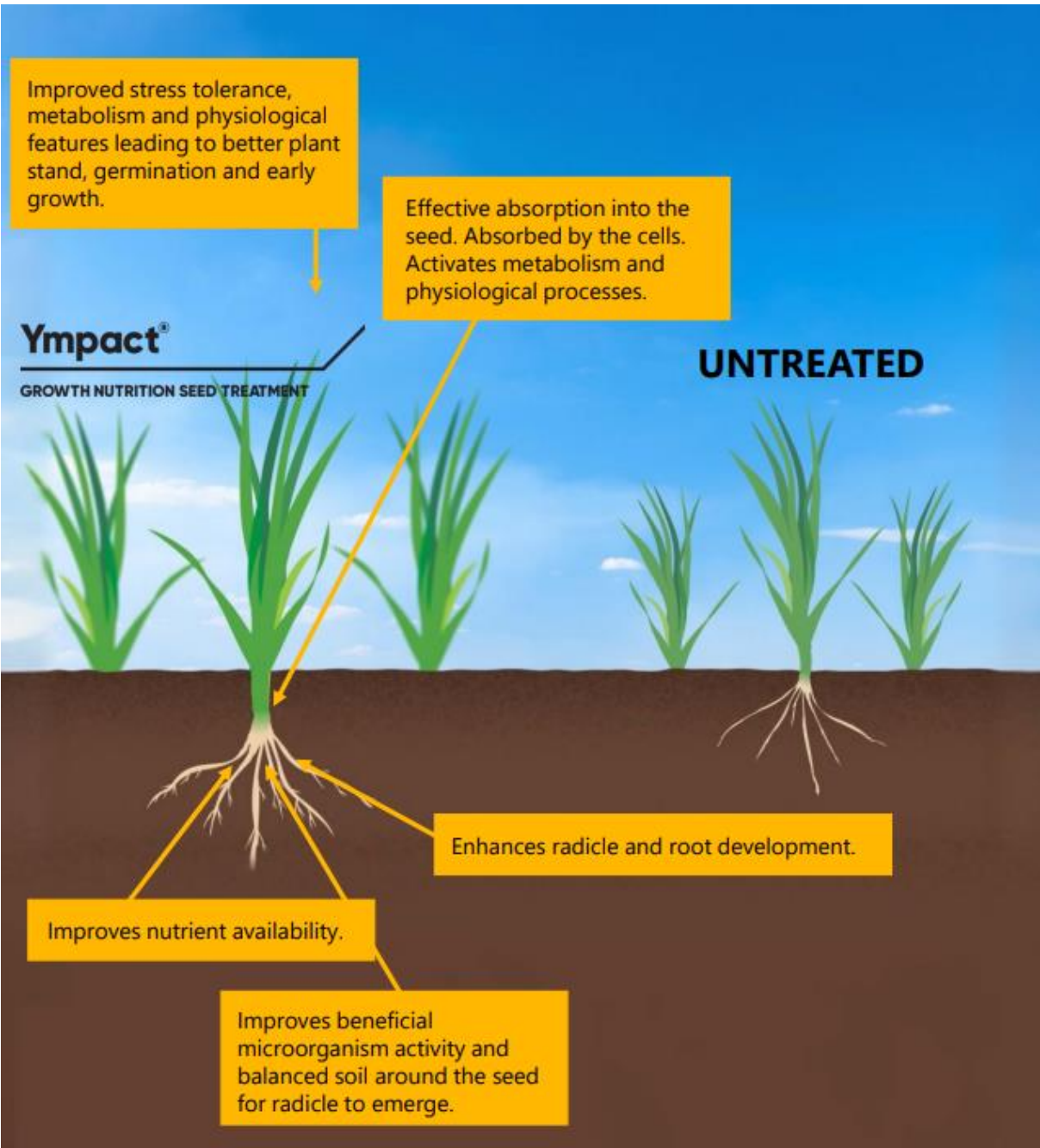
GROWTH NUTRITION SEED TREATMENT

Ympact Seed Treatment

New for Autumn 2025



- Speeds up plant emergence and early crop vigour
- More uniform plant establishment
- Increased nutrient availability
- Higher plant biomass and chlorophyll content
- Better tolerance to abiotic stress
- Improved winter hardiness



Ympact

Product Details:

- Humic and fulvic acid
- Chelated nutrients: Manganese, Zinc, Copper
- Dose rate: 0.7 litres/tonne

Technical profile:

- Soil resilience bio-stimulant
- Registered European Fertiliser under EC No 2003/2003
 - Covers nutrient content, safety, and absence of adverse effects
- In-line with Agrii's view of Humic acid benefits and Mn, Zn and Cu nutrition
- Compatible with Agrii seed treatments

Ympact[®]

GROWTH NUTRITION SEED TREATMENT

UK FERTILISER

CE PFC 1(C)(II)(b) COMPOUND INORGANIC MICRONUTRIENT FERTILISER in solution

Liquid mixture of micronutrients with Copper (Cu), Manganese (Mn) and Zinc (Zn).

Micronutrients %
Copper (Cu),
Manganese (Mn),
Zinc (Zn),

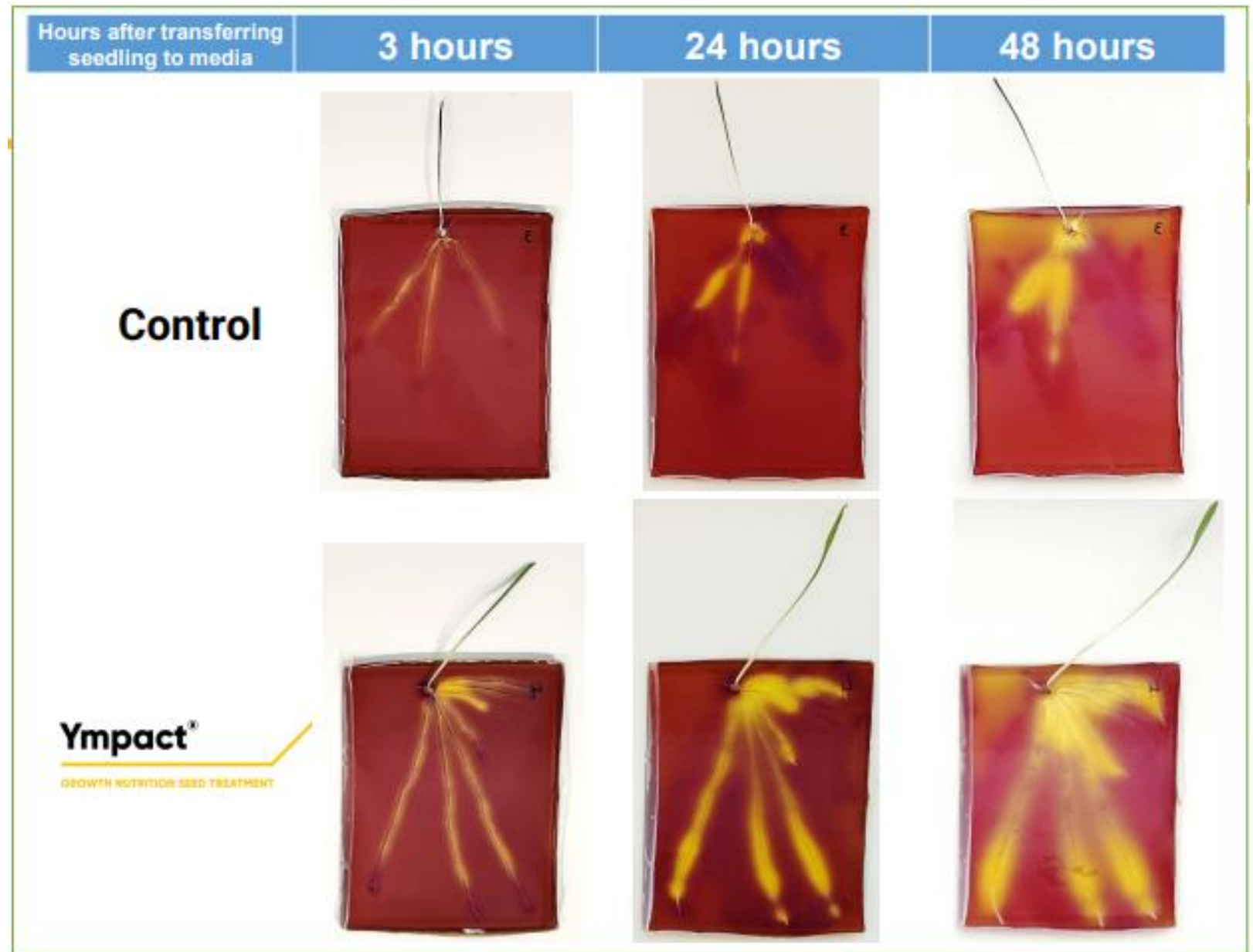
0.50% soluble in water,
0.90% soluble in water,
1.20% soluble in water,

0.40% chelated by EDTA
0.70% chelated by EDTA
1.00% chelated by EDTA

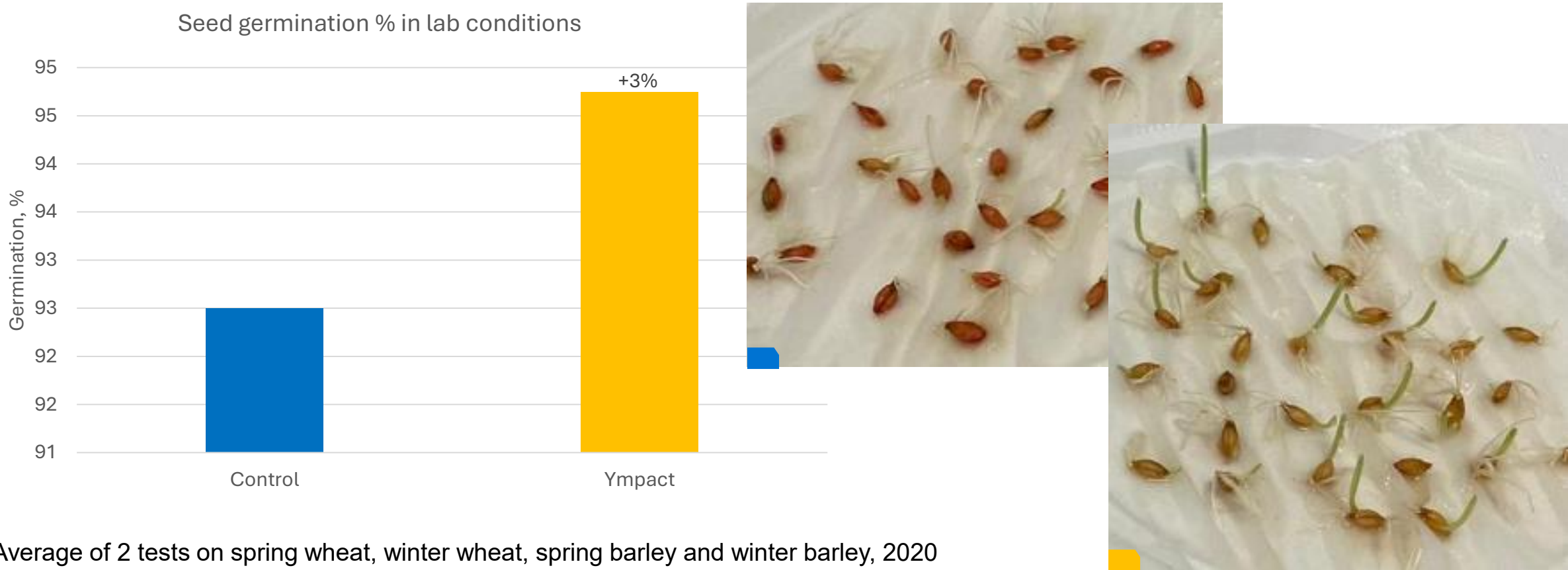
The product contains Humic acids potassium salts* (EC 271-030-1), Disodium [[N,N'-ethylenediylbis[N-(carboxylatomethyl)glycinato]](4-)-N,N',O,O',ON,ON']zincate(2-)* (ZnNa₂ EDTA, EC 237-865-0), Dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']manganate(2-)* (MnK₂ EDTA, EC 268-144-9), Disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-)* (CuNa₂ EDTA, EC 237-864-5)
* Virgin material substances and mixtures.

Humic Acid Benefits

- Increases cation exchange
- Causes cell wall acidification
- Low pH loosens cell walls
 - Increases root length
 - Promotes lateral and root hair formation
- Can be visualized using pH sensitive media
 - Red = pH 7
 - Orange < pH 6

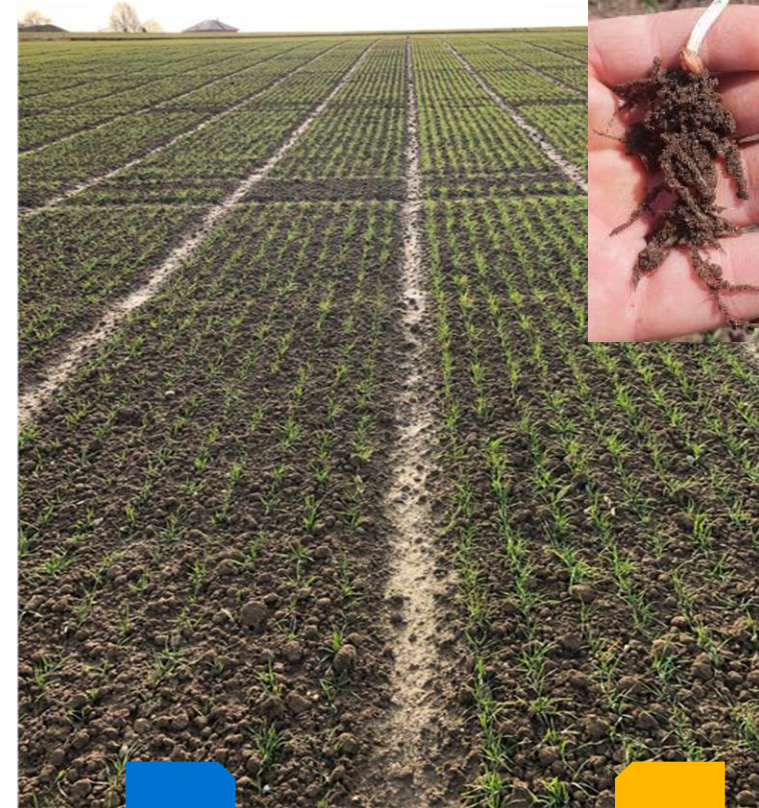
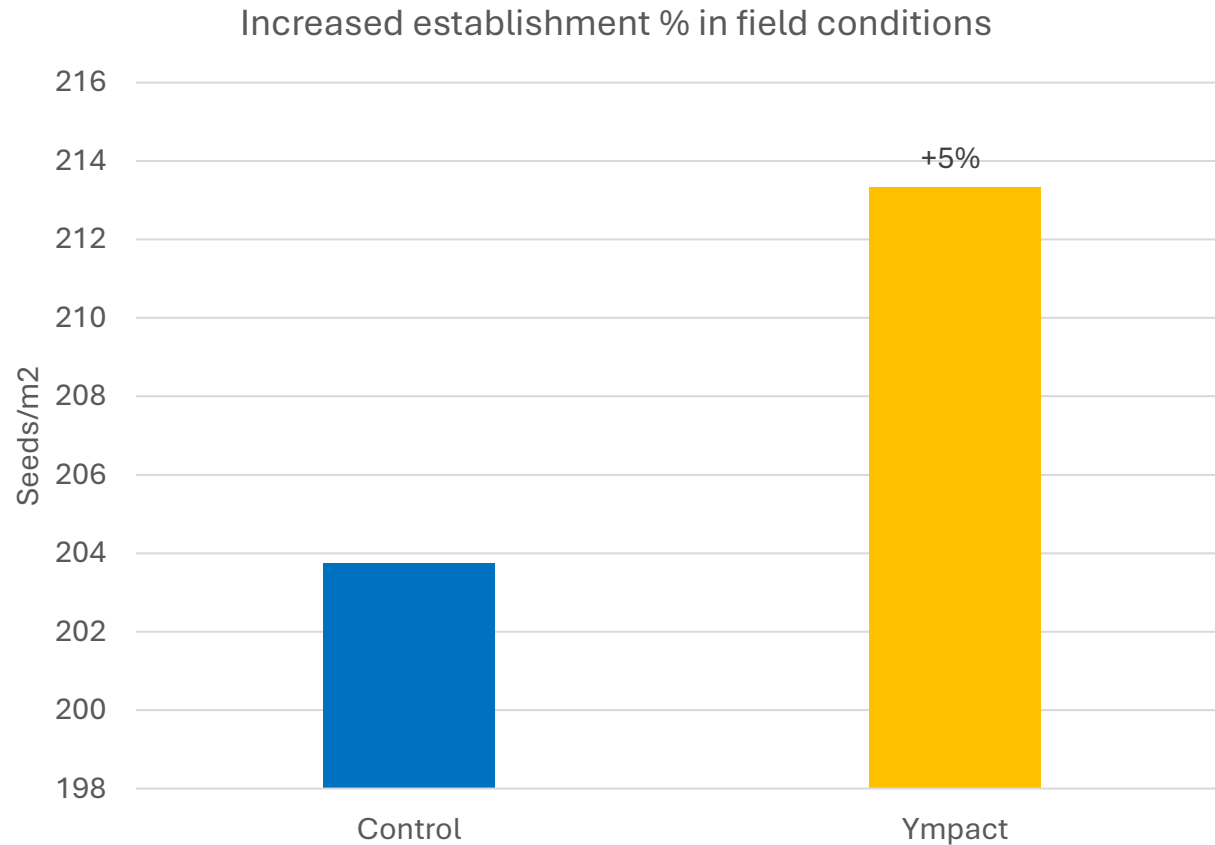


Ympact seed treatment promotes seed germination



Methodology: Germination measured 14 days after planting on 200 seeds planted. 7 days at 10 °C and 7 days at room temperature 21 °C.
Control: 25 g/l difenoconazole, 25 g/l fludioxonil, 10 g/l tebuconazole.

Get crops off to the best start



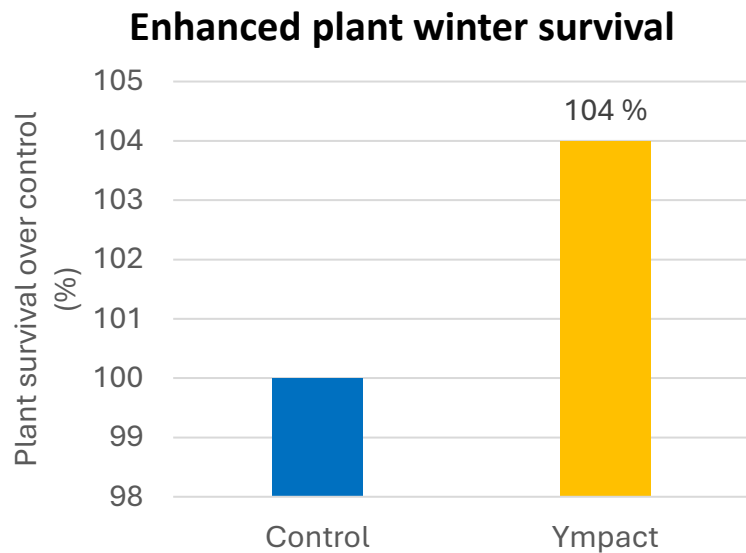
Vibrance

Vibrance + Ympact

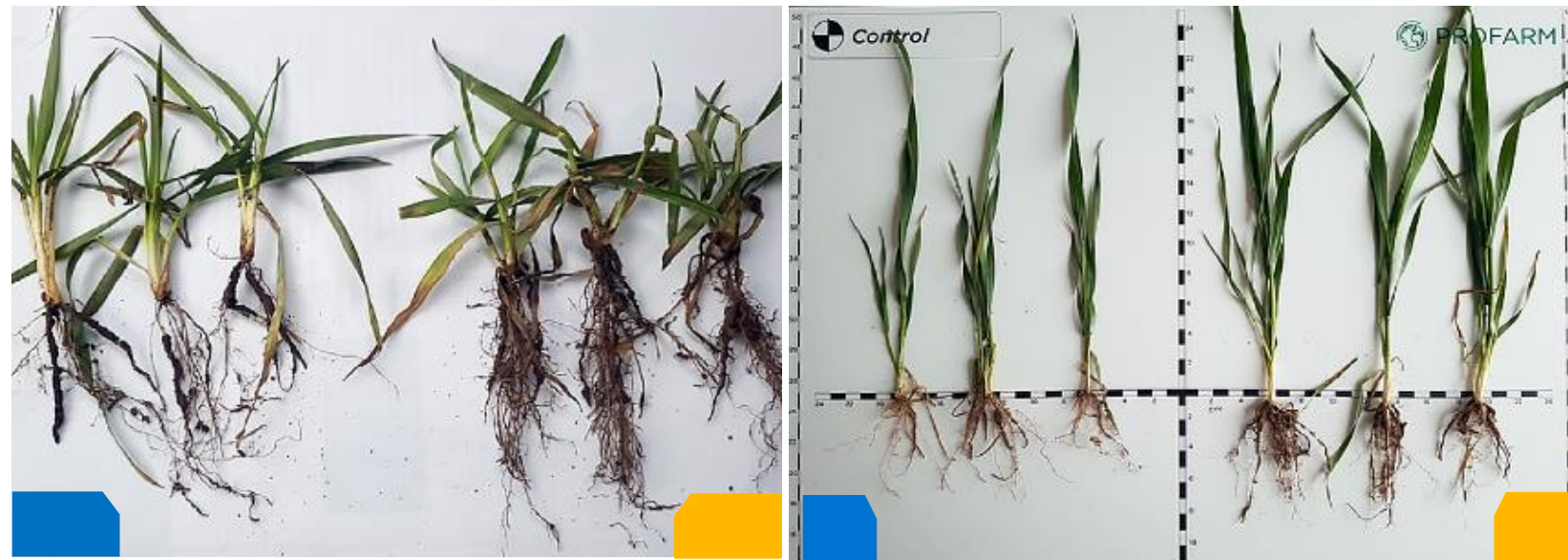
*Average of 6 locations in Europe, 2020
Average of w.wheat (2), w. barley (2) and spring barley (2) trials*



Plant establishment and overwintering

Winter wheat plants in spring – more developed root system and better foliar development



Average of 4 sites, 2021
Winter wheat data



 Control
 Control + Ympact®

Winter wheat, Corteva Trials, 2024

March 2024



Re-cleaned only



Ympact



Beret Gold



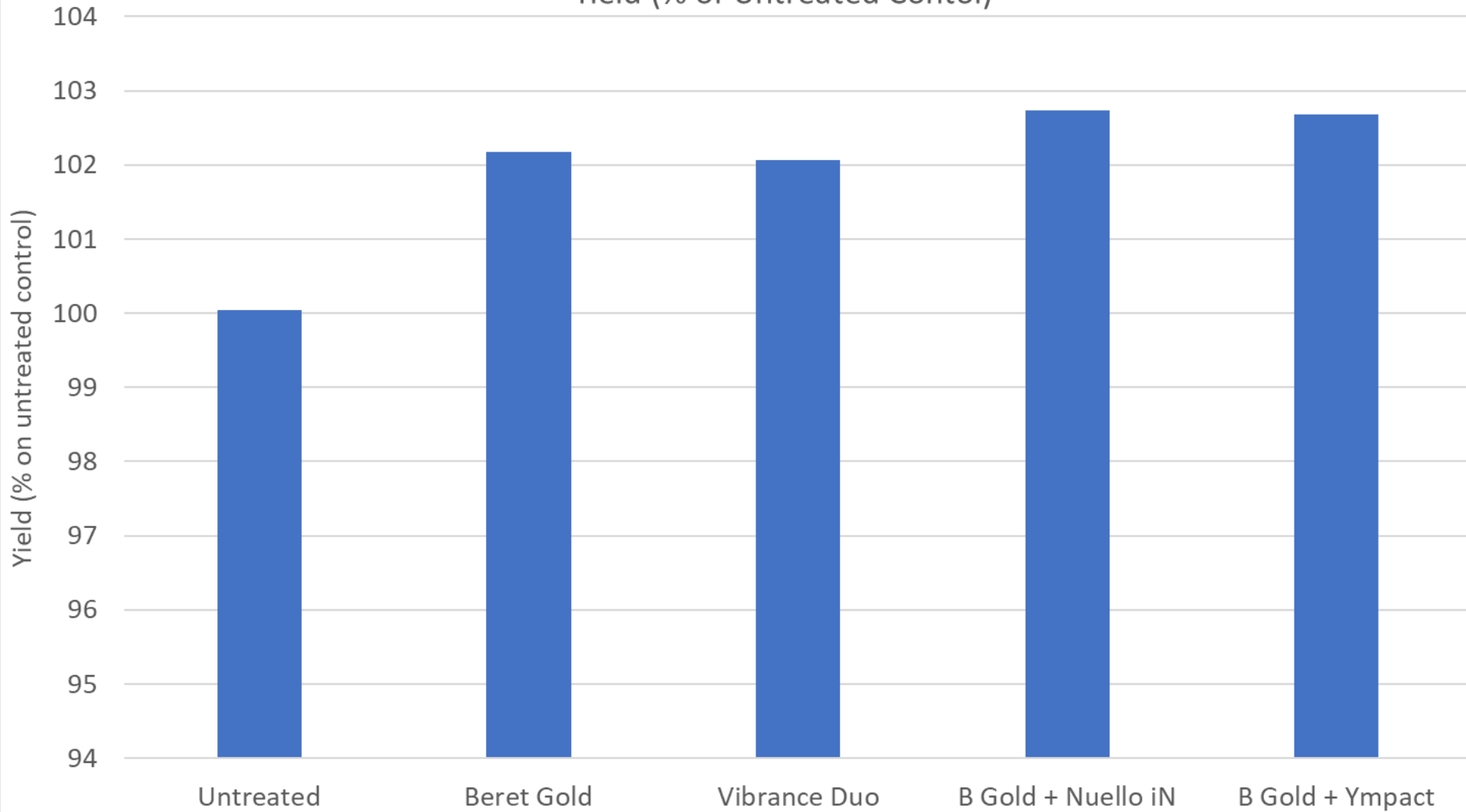
Beret Gold + Ympact

Winter Wheat Establishment Trials, 2022

Yield (% of Untreated Control)

Agrii

Agri intelligence

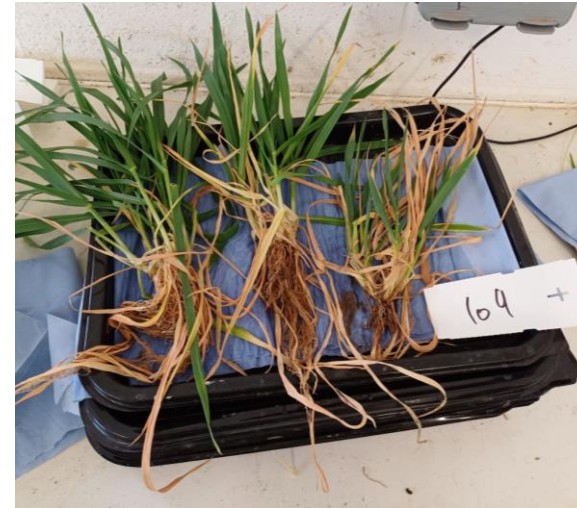


Source: Mean of 5 trials (Langley, Agriifocus, South Wales, Bishop Burton and Carnoustie). Control Yield = 11.2t/ha, Variety: Ambassador with 29% Microdochium nivale

AgriiTM

25097- Novel Seed Treatments

- + Tested at Throws
- + Root and stem measurements



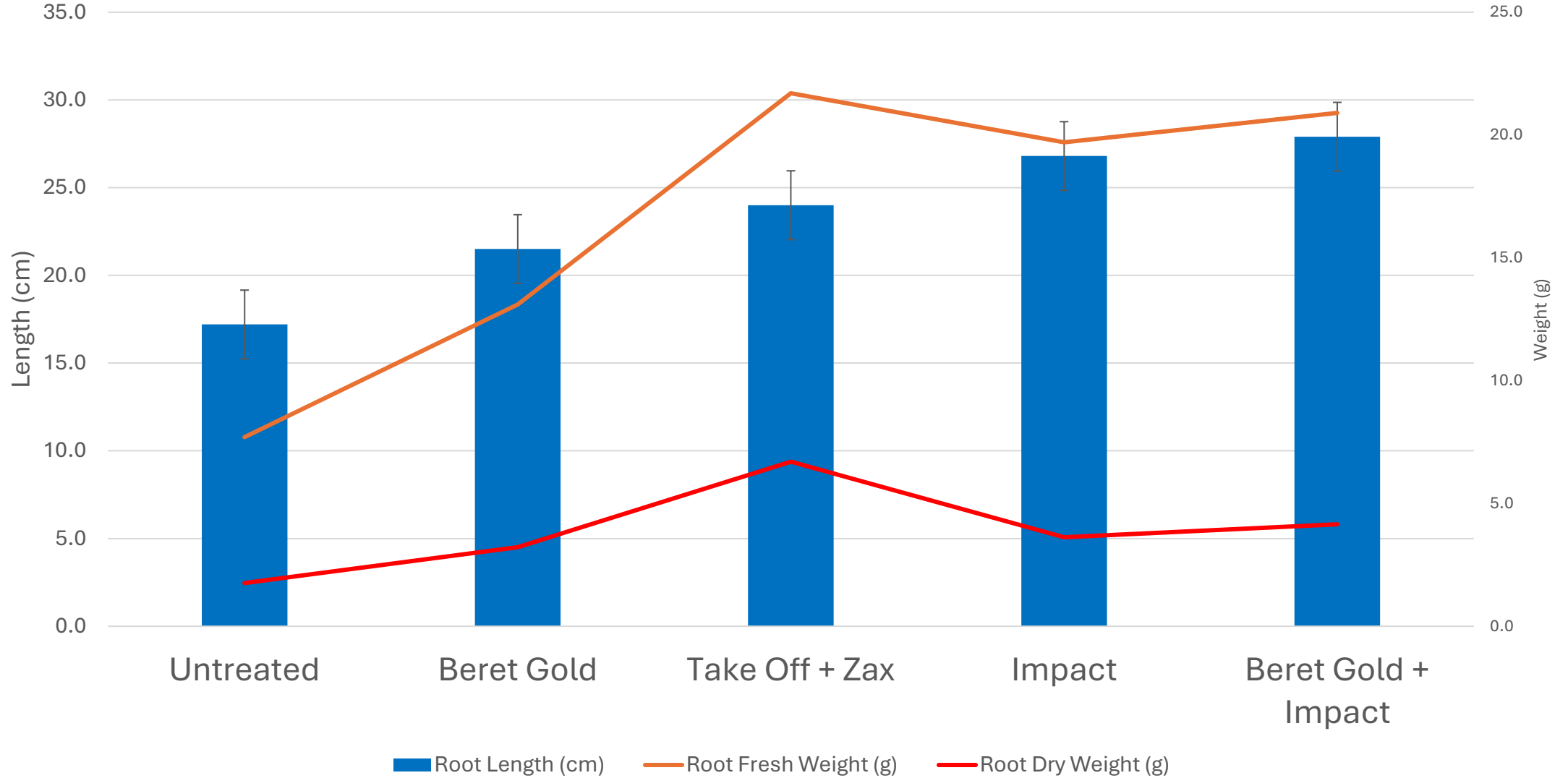
Untreated

Take Off + Zax

Ympact

Ympact + Beret Gold

25097- Novel Seed Treatments



Support materials

Ympact®
GROWTH NUTRITION SEED TREATMENT

SEED APPLIED TECHNOLOGIES

Inspired by nature, Ympact® is a novel biostimulant seed treatment which enhances seedling growth by optimising metabolic processes and abiotic stress tolerance.

A seed treatment with unique growth and nutritional properties. It enhances seed germination and encourages robust early growth resulting in resilient crop establishment.

WHY USE YMPACT®?

- Speeds up plant emergence and improves early crop vigour.
- Enables more uniform plant establishment.
- Increases biomass and chlorophyll content.
- Improves metabolic activity and plant resilience.
- Increases winter hardiness.

THE DETAIL

Ympact helps crops to get off to a great start during early growth development even in poorer establishment conditions. It is formed from purified lignin, which is a natural by-product of the paper manufacturing process sourced from conifer trees. The resulting product, Ympact is a biostimulant that contains an optimal ratio of humic and fulvic acids which are bonded with selected micronutrients essential for plant development.

Nutrient availability is essential for any plant to function to its optimum. In the beginning, nutrients in the endosperm are neither immediately or sufficiently available to support germination properly. Seeds initially only have a limited amount of energy available to release nutrients for germination and plant development.

With Ympact's unique molecular complex combined with micronutrients, seeds are supported with additional external nutrients and energy which support various metabolic activities during the germination process.

Micronutrients in Ympact and their role

Micronutrients	Main role in cereals
Zinc (Zn)	<ul style="list-style-type: none"> Auxin co-factor. Activates cell division and elongation. Improves crop germination, emergence, seedling growth, plant stand and yield.
Manganese (Mn)	<ul style="list-style-type: none"> Empowers enzyme activity. Accelerates cell elongation and cell division.
Copper (Cu)	<ul style="list-style-type: none"> Major function in photosynthesis and indirect role in chlorophyll production.

UNTREATED

absorption into the...
erbed by the cells.
metabolism and
al processes.

oot development.

Ympact®
GROWTH NUTRITION SEED TREATMENT

micronutrients making them readily available for the seed. The ensures the bioavailability of nutrients in early stage of growth in various conditions.

THE PLANTS

metabolic and
wth stages.

ving access to
n from early
nt.

KEY ADVANTAGES FOR THE SEEDS

- Beneficial for microorganism activity around the seed.

SHOOT DRY MATTER: +2%

ROOT DRY MATTER: +3%

UNTREATED **TREATED**

FORTIFIED WINTER HARDINESS

- Speeds up plant emergence and early growth vigour.
- Enables more uniform plant establishment and early growth.
- Increases biomass of the plants and chlorophyll content.
- Increases metabolic activity leading to an improvement in plant resilience. Improves overwintering, and yield formation capacity of the plant.
- Plants maintain the number of productive tillers, grain number in ear and ear length.
- Plants maintain grain quality potential.

CORTEVA
agriscience