

New

# VitaExpert Regenerum

Perfect for regenerative treatments after winter dormancy, pesticide damage and frosts, ideally and in a balanced way nourishes plants with the necessary phosphorus, potassium and nitrogen. Unrivalled improves the overall condition of plants. Contains 3% amino acids, nourishing the crop and acting as a penetrator.

19,18% N + 19,18% P<sub>2</sub>O<sub>5</sub> + 19,18% K<sub>2</sub>O + 24,85% C + 0,48% B + 0,55% Cu + 0,14% Fe + 0,21% Mn + 0,01% Mo + 0,048% Zn

%(m/v)

Density 1,37 kg/l

pH 5,0 – 6,0

Organic matter content min. 50.6 (% s. m.)

## The role of amino acids:

- 3% addition of amino acids increases and accelerates the absorption of NPK macronutrients contained in the foliar fertilizer
- amino acids increase photosynthetic activity and are precursors of plant hormones they have a beneficial effect on the dynamics of plant growth, increasing the main yield and
- improving its technical parameters

## The role of nitrogen:

- is the element with the highest yield-forming efficiency
- stimulates the growth of underground and above-ground parts of plants and gives them an intense green color, is responsible for the elongation of plant cells, stimulates the development of the root system and increases the uptake of nutrients and water from the soil
- is an important component of proteins, chlorophyll, vitamins, plant hormones and enzymes
- improves the water management of plants and increases their tolerance to drought

## Nitrogen deficiency:

- yellowing leaves or light green discoloration of plants. Chlorosis is first visible on older leaves stunted plant growth, poor branching, dwarfism. Plants have stiff stems and leaves, erect and attached to the stem
- some plants may have red discoloration on shoots, leaf petioles and the underside of leaf blades

## The role of potassium:

- regulates the water balance of the plant and builds resistance to stress conditions
- regulates nitrogen uptake from the soil. It allows to increase the content of sugar in beets, starch in potatoes and cereal grains, fats in oilseeds
- improves health by increasing resistance and tolerance to the negative effects of fungal diseases and pests
- participates in the formation of starch, sugars and their transport inside the plant

## Potassium deficiency:

- loss of turgor, wilting of plants
- necrosis: yellowing of leaves progressing from the edges, then wilting of leaves, browning, death of leaves and their falling
- inhibition of growth even with slight water shortages

## The role of phosphorus:

- takes part in the formation and growth of the root, thus influencing the intensity of nutrient and water uptake from the soil
- affects the activation of many metabolic processes in plants: photosynthesis, respiration, protein, fat and sugar synthesis. Ensures energy transport in plant cells strengthens culms and stems by increasing the amount of lignin
- limits the negative effects of nitrogen over-fertilization
- increases the number of seeds and fruits formed. Evens out and shortens the ripening period
- affects the size of the main crop and improves its quality and storage parameters

## Phosphorus deficiency:

- stunted growth, erect plant habit, stiff leaves
- limited root and shoot growth. Delayed or disturbed development of hairy roots
- delayed flowering and ripening
- poor resistance to frost and spring frosts
- older leaves take on a red-purple tint. In extreme deficiencies, they may die and fall off
- increased susceptibility to fungal diseases and pest attacks



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## Recommendations for use:

- preventively and as an intervention in the event of nitrogen, phosphorus and potassium deficiencies. Thanks to the addition of amino acids, nutrient deficiencies will be quickly compensated
- in the event of the need to regenerate crops after winter or after phytotoxic damage after pesticide treatments
- in order to relieve stress and improve the dynamics of plant growth
- in order to support the uptake of nutrients applied to the soil. In particular, phosphorus, the uptake of which is minimized at low soil temperatures
- in order to increase the resistance and tolerance of plants to abiotic and biotic stress

## Dosage and timing of application:

Crop	Dose (l/ha)	Number of treatments and application timing:
Fruit trees	2-3(5*)	Several treatments: especially recommended in the event of drought and the inability to absorb macroelements from the soil. Also recommended in the green bud phase and after flowering
Sugar beets	2	2 treatments: from the 4-6 leaf stage to 100% inter-row closure (BBCH 16-39)
Blueberry	2-3(5*)	Several treatments: during drought and the inability of the soil to absorb macroelements
Corn	1-2(3*)	2 treatments: 3-5 leaf stage (BBCH 15-18); 2 weeks after the first treatment
Winter rapeseed oil	2-3	2 treatments: from the beginning of the main shoot elongation immediately after winter dormancy, until the beginning of flower bud development (BBCH 30-52)
Ground vegetables	2-3	3 treatments: from the 2nd week after emergence/planting every 12-14 days
Spring cereals	1-2(3*)	2 treatments: from the 3-4 leaf stage to the beginning of earing (BBCH 13-50), at an interval of 12-14 days
Winter cereals	1-2(3*)	2 treatments: after winter dormancy until the beginning of earing (BBCH 31-50), at an interval of 12-14 days
Potatoes	2-3	2-3 treatments: from the shoot formation phase until reaching 40% of the final tuber mass (BBCH 35-73), at 12-14 day intervals

(\*) in case of significant nutrient deficiency

Note: The fertilizer cannot be mixed with calcium fertilizers and magnesium sulphate

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