Reg. No. K11137 Act. No. 36 of 1947

AgraVito R

AgraVito R forms part of our **Bio Innovation**™ range

Description

AgraVito R is a unique powder plant nutrient formulated to be used with dripper irrigation systems to supply N, P, K and S to crops. These elements are essential for crop production especially during reproductive growth stages of high energy demand.

Key Benefits

- 100% water soluble and easy to dissolve.
- The product has a relatively low pH that can help to reduce lime sedimentation to dripper lines.
- Ca and Mg levels in the product are lower than 0.1 mg/kg.

Composition

Element	Content (g/kg)
Nitrogen (N)	129
Phosphate (P)	96
Potassium (K)	201
Sulphur (S)	36

Key functions

- **N** is part of amino acids, proteins and chlorophyll and is therefore involved in essential processes such as photosynthesis and the growth of crops.
- **P** is necessary for ATP (energy) production and is also crucial for root development and flower formation.
- **K** mainly plays a role in the translocation of sugars and therefore improves the quality of harvestable organs.
- **S** is needed in forming proteins, enzymes, vitamins, and chlorophyll in crops. It is crucial in nodule development and efficient N fixation in legumes.

Application Rates

Crop	Dosage
Row crops	Via dripper irrigation system 10-100 kg/ha
Vegetable crops	Via dripper irrigation system 10-100 kg/ha
Fruit Tree crops	Via dripper irrigation system 10-100 kg/ha

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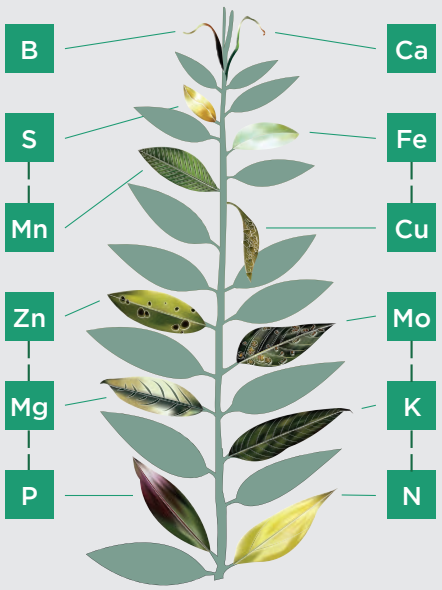
Average concentration in plant tissue & General deficiency symptoms

mg/kg in dry leaf mass	Element	Deficiency symptoms
15000	N	Yellowing of older leaves & stunted growth
2000	P	Dark green/purple older leaves & stunted growth
10000	K	Yellowing & necrosis of leaf margins for older leaves
5000	Ca	Deformed young leaves & desiccation of growing points
2000	Mg	Interveinal chlorosis of older leaves
1000	S	Yellowing of younger leaves & stunted growth
100	Fe	Interveinal yellowing of younger leaves
20	Zn	Interveinal yellowing and rosettes of young leaves, necrotic spots and twigs die back
50	Mn	Interveinal yellowing of younger leaves with necrotic spots
6	Cu	Yellowing and curling of leaf blades with white tips, die back of shoots
20	B	Thick textured leaves & affect flowering and seed filling.
0,1	Mo	Yellow, wilted and rolled-up leaves with burned margins
0,1	Ni	Small curled older leaves with necrotic tips

On Terminal Buds: **Ca & B**
On Young Leaves: **Cu, S, Fe & Mn**
On Old Leaves: **N, P, K, Mg, Zn & Mo**

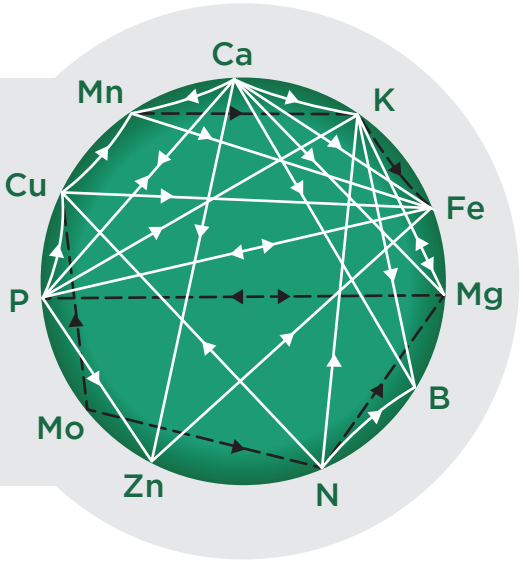


Interactions between nutrients that reduces availability

Macro-elements	Micro-elements
Zn - P	Zn - Fe
Zn - N	Mn - Fe
Fe - P	Mo - Fe
Cu - P	Cu - Fe
Mo - S	Cu - Mo
Zn - Mg	Cu - Zn
B - Ca	

ANTOGONISM
Decreased availability of a nutrient to a plant due to the action of another nutrient

STIMULATION
High level of a nutrient increases the demand by the plant for another nutrient



Effect of pH on nutrient availability