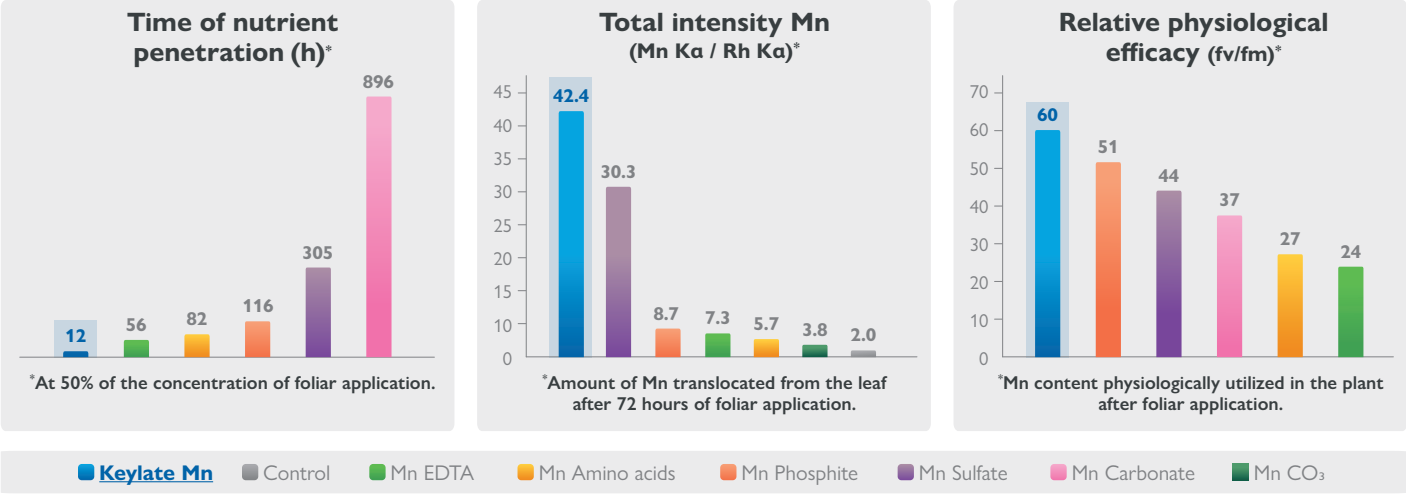
Keylate

Stoller Solution to prevent and correct nutritional deficiencies

The **Keylate** product range is a line of liquid fertilizers developed to prevent and correct nutritional deficiencies or imbalances in crops.

All the micronutrients provided by Stoller **Keylate** family are chelated by organic complexes, which improves and increases the speed of plant absorption by the leaf cuticle, as well as their subsequent assimilation and use in the different plant tissues. Moreover, these compounds are biodegradable and do not leave residues, making their use much more environmentally sustainable.

The Stoller Formulation Technology present in the Keylate range solutions guarantees a higher penetration, translocation and utilization of nutrients by the plant compared to other formulations.

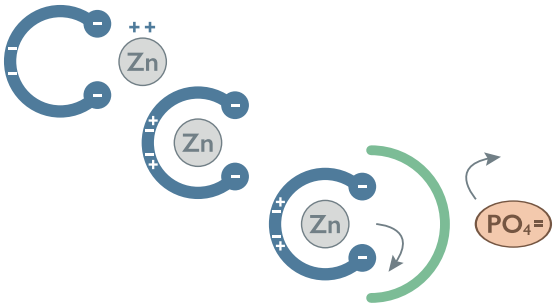


Source: Hudson Carvalho (CENA – USP) - Piracicaba/SP (2020) Brazil

- **Recommended for foliar applications, as well as root applications** through the irrigation system.
- **The Keylate line has an optimum stability between pH 3 to 9**, so they are perfect for any type of soil and can be mixed with other Stoller liquid fertilizers, as well as with phytosanitary products.
- **They have a greater penetration, translocation and assimilation of nutrients** by the plant.

Why is the use of micronutrient complexes important?

A complex is a molecule that binds to a metal ion, in our case, a micronutrient, creating a "molecular claw", which contains and protects the micronutrient from being negatively charged by particles that interacting with the micronutrient would cause it to precipitate in the form of an insoluble salt, preventing its absorption by plants.



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Product	Composition	Description
Keylate Fe NUTRItional TECHNOLOGY	Fe 5% p/p	Iron (Fe) complexed deficiency corrector, developed to reduce iron chlorosis in crops.
Keylate Mg NUTRItional TECHNOLOGY	MgO 5% p/p	Complexed Magnesium (MgO) deficiency corrector, developed to avoid Magnesium deficiencies and its consequences in the decrease of photosynthetic activity.
Keylate Mn NUTRItional TECHNOLOGY	Mn 5% p/p	Complexed Manganese (Mn) deficiency corrector, developed to reduce foliar chlorosis and enzymatic deficiencies in crops.
Keylate Zn NUTRItional TECHNOLOGY	Zn 9% p/p	Complexed Zinc (Zn) deficiency corrector, developed to reduce deficiencies in auxin production and enzyme production.
Keylate Cu NUTRItional TECHNOLOGY	Cu 5% p/p	Copper (Cu) complexed deficiency corrector, developed to prevent enzymatic disorders related to redox chemical reactions.
Keylate Mo NUTRItional TECHNOLOGY	Mo 6% p/p	Molybdenum (Mo) deficiency corrector, developed to reduce and prevent disorders in nitrogen fixation and nitrate reduction.
Green line **Keylate** B NUTRItional TECHNOLOGY	B 10% p/p	Boron (B) deficiency corrector, developed for reduce malformation of cell walls and consequences of its instability.
Green line **Keylate** ZnMn NUTRItional TECHNOLOGY	Zn 6% p/p + Mn 6% p/p	Zinc and Manganese deficiency corrector developed to reduce foliar chlorosis and enzyme deficiencies in the crops.
Keylate ZnMg NUTRItional TECHNOLOGY	Zn 3% p/p + MgO 5% p/p	Zinc and Magnesium deficiency corrector, developed to prevent a decrease in photosynthetic activity. Activates the synthesis of auxins (AIA), the main hormone of growth.