



SQM

*The latest
revolution
in plant performance*



Ultrasoline[®] **K Plus**

*Science shows that
plants need iodine*

The application of Ultrasol[®]ine K Plus conveniently and adequately ensures the iodine supply to fertigated crops in order to maximize crop yield and quality, and improves plant resilience to environmental stress.



Improved root growth



Optimal nitrogen metabolism



Improved canopy development and branching



Optimal photosynthesis



Improved tolerance to oxidative stress



Improved flowering and fruit quality



Improved calcium concentration in the fruit and better shelf life



Potassium

An essential nutrient for yield and quality

- Promotes the production of proteins
- Promotes photosynthesis
- Intensifies the transport and storage of carbohydrates
- Improves uptake efficiency of N fertilizers
- Improves water use efficiency
- Promotes lycopene synthesis

Nitrate

The preferred nitrogen source

- Non-volatile
- Promotes the uptake of cations (K^+ , Ca^{++} , Mg^{++})
- Nitrate is readily absorbed by the plant
- Nitrate limits the uptake of chloride
- Efficient conversion to amino acids in the leaves

Benefits of Ultrasol[®]ine K Plus:

Root growth	<ul style="list-style-type: none"> • More and better developed primary and secondary roots • Improved active uptake of water and nutrients
Nitrogen conversion	<ul style="list-style-type: none"> • Optimized conversion of nitrate to proteins • Reduced cell damage by reactive oxidized nitrogen forms
Plant growth (above ground)	<ul style="list-style-type: none"> • Increased growth rate of above ground biomass • Increased yield • Earlier harvest • Improved stem branching for a better interception of light
Photosynthesis	<ul style="list-style-type: none"> • Higher concentration of chlorophyll • Better conversion of solar energy to chemical energy • Increased conversion of CO_2 to sugars
Tolerance to abiotic stress	<ul style="list-style-type: none"> • Higher level of antioxidants like vitamin C and polyphenols • Mitigating loss of production from adverse environmental conditions
Flowering and fruit quality	<ul style="list-style-type: none"> • Better fruit set, leading to more uniform fruit size • Better colour and earlier ripening of fruits with a higher sugar content
Fruit rot and shelf life	<ul style="list-style-type: none"> • Less fruit rot and enhanced shelf life by increased Ca concentration in the fruits • Improved water transport by better photosynthesis and root function, increases translocation of calcium to the fruits

Properties of Ultrasol[®]ine K Plus



Ultrasol[®]ine K Plus is an indispensable component in well-balanced nutrition programs for fertigation of crops, grown in soil or hydroponic systems.

Ultrasol[®]ine K Plus ensures an adequate supply of iodine in the nutrient solution.

Nutrient content (%)	
Nitric nitrogen ($N-NO_3^-$)	13,7% min
Potassium oxide (K_2O)	46,3% min
Solubility (g/l at 20°C)	316
Insolubles	<0,02%
EC (1 g/l at 25°C, in mS/cm)	1,35
Color	White

DISCLAIMER

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