

The latest revolution in plant performance

SANGRAL[®]INE **POTASSIUM NITRATE**

Science shows that plants need iodine

The application of Sangral[®]ine potassium nitrate 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



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SANGRAL[®]INE POTASSIUM NITRATE

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 Sangral[®]ine Potassium Nitrate:

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 CO₂ 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 Sangral[®]ine Potassium Nitrate



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

Sangral[®]ine Potassium Nitrate ensures an adequate supply of iodine in the nutrient solution.

Specifications of Sangral[®]ine Potassium Nitrate

Nitric nitrogen (N-NO ₃)	13,7% min
Potassium oxide (K ₂ O)	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
Colour	white

Ask your local SQM agronomist for a specialty plant nutrition programme in accordance with your local needs and requirements.

DISCLAIMER

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