ZULEMA®

A more 'healthy and vigorous' plant

- *improves conditions of the rhizosphere*
- *feed the microbiota*
- *mobilities phosphorus,cations and microelements*
- *Does not create toxicity*
- *Increases attractiveness to pollinating insects*
- *Does not residues on crops*
- *Optimises crops yield and quality*

Zulema is an immediately bioavailable sulphur-based corrective agent obtained by a biological desulphurisation process using bacteria of the genus *Thiobacillus*
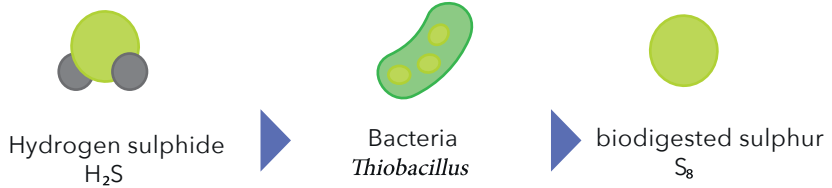
The use of Zulema prevents sulphur deficiencies in the plant by participating in the synthesis of sulphur-containing amino acids, vitamins and proteins, and also acting as a hormone balancer.

Applied to the soil, also in fertigation, it rapidly improves soil conditions by mobilising nutrients and ensuring better and continuous availability.

Zulema can be used in foliar treatments in mixtures with other products even if its function is that of a corrective. Used by foliar application, it quickly penetrates plant tissue and creates conditions for the colonisation and development of natural symbiont micro-organisms.

Unlike other sulfur products, does not soil plant tissues, is not phytotoxic to the crop and leaves no residue.

ZULEMA PRODUCTION PROCESS IN THE BIOREACTOR

Hydrogen sulphide
H_2S

▶

Bacteria
Thiobacillus

▶

biodigested sulphur
S_8

APPLYING ZULEMA IN THE SOIL

Biodigested sulphur undergoes the following under the action of soil microorganisms

SOIL	CIRCULATING SOLUTION	RESULTS
SALINE	S_8 —NaCl— $H^+ + Cl^-$ —HCl / $SO_4^{-2} + Na^+$ — Na_2SO_4	Decreasing EC drives away the salts
CLAYEY	S_8 —Na^+— H^+ / $SO_4^{-2} + Na^+$ — Na_2SO_4	Lowering the PH decreases the EC
ALCALINE	S_8 —$CaCO_3$— H^+ / $SO_4^{-2} + CaCO_3$ — $CaSO_4$	Lowering PH decreases excess Ca

Zulema is a product authorized in organic farming.

1 L   5/20 L   Foliar   Fertigation

Packaging eco friendly   Approved for organic farm

DOSAGE & METHOD OF USE

CROPS	FOLIAR ml/hl	FERTIGATION l/ha
Cereals	350-450	10
Floriculture & Hornamental	250-400	10-20
Forage	400-500	10
Grapes and fruit trees	350-450	10-20
Industrial	400-500	10-20
Horticultural	300-400	10